ZEISS IKON

Contaflex Super B

(10.1272)
(1963)

Contaflex Super

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(1965)

SERVICE MANUAL

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Repair Instructions

Contaflex super B, Cat.No. 10.1272

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General Notes

The Contaflex super B, Cat. No. 10.1272, possesses the following characteristic features:

Shutter:	Synchro-Compur 1110-556 with speeds from 1 sec to 1/500, B, XM synchronization and delayed-action release.
Lens:	Carl Zeiss Tessar f/2.8,50 mm, with interchangeable front elements in bayonet mounts, helical-screw focusing.
Exposure meter:	Automatic exposure control with locking needle.
Rangefinder:	Dual coupled rangefinder with split-image circle and fine-grain ground-glass ring.

In comparison with its preceding model, the Contaflex super 10.1271, the Contaflex super B 10.1272 features an automatic exposure-control mechanism which not only automatically transfers the exposure value recorded by the exposure meter to the shutter by means of a scanning system, but also displays simultaneously the aperture and shutter-speed settings in the viewfinder. Even after the exposure, these values remain visible until the shutter is retensioned once again.
In addition, the Contaflex super B has an automatic flash exposure-control system, which makes it impossible to focus the lens to a distance beyond the flash range available at the appropriate guide-number setting and at the same time automatically selects the correct f/number.
The body, winding gear and shutter-tensioning sub-assemblies remain unaltered from the Contaflex super 10.1271.
In all repair operations, care must be taken to satisfy all the requirements stipulated in the assembly and adjusting instructions. The camera must also be checked according to the testing instructions (pages 21-25).
Special attention should be paid to the repair of components made of plastic materials; these are easily scratched and are also severely attacked by most cleaning solvents. Even the vapour of trichlorethylene, methyl chloride or acetone may result in a dulling of the surface. Excessive rubbing during cleaning should be avoided, since this may result in electrostatic charging with the consequent attraction of dust.
The underlined figures in the Illustrated Section indicate that these refer to fully-assembled components or complete sub-assemblies. For example: Ill. 2, No. 311 = Shutter with Lens; Ill. 11, No. 151 = Gear housing, assembled.
Figures which are bracketed in the "Pieces" column of the parts list indicate that these parts are employed as required.

Note: When ordering spare parts, both the order number and the name of part should be quoted (section of the parts list outlined with bold line).

Slight variations in the description etc. of parts may be encountered as the result of technical improvements.

Dismantling

The following dismantling instructions describe the complete stripping-down of a camera. This complete dismantling is however unnecessary in the majority of situations; it will therefore be necessary to decide from one case to another the extent to which the camera need be dismantled.
It should also be pointed out that the shutter can be removed and re-fitted without having to dismantle the camera itself (see pages 3 and 13).

Tensioning lever (Ill. 2, 6)

Unscrew nut 25 with the aid of collet 126-00.053/800. Lift off counter disc 36. Remove threaded nipple 35 with key 861/24 M/80 (left-hand thread). Lift off control ring 34 and control spring 33. Undo the 3 screws 67 and 1 screw 62. Lift off bearing flange 31 together with leaf spring 32, withdraw release nipple 29, pressure spring 28, tensioning lever 108 and torsion spring 270.

Rewind mechanism (Ill. 1, 2, 3, 6)

Undo the 2 screws 69, take off ring 12, lever 106, scale 105 and spring washer 27. Grip hub 104 with spanner 865/24 M/804 and slacken nut 16 with key 126-00.044/800. Then grip rewind coupling dog 170 with holder 126-00.000/804 and screw off hub 104 with key 126-00.000/800. Undo the 2 screws 67, lift off spring 14 and cam ring 15, screw out 2 shoulder screws 26, take out bedplate 103, disengage spring 17, lift out ring 101 (DIN) or 102 (ASA) and cogwheel 13.

Top capping (Ill. 6, 7, 8, 9, 10)

Unscrew countersunk screw 68 and 2 chrome-plated cylinder screws 63. Carefully lift off top capping 78. Take care not to lose washers 44, 45 and 72, 73. Unsolder the two grey connecting wires 303, also the brown flash cable 211 and the black earthing wire 213 from the top capping 78.

Prism, exposure meter, winding gear (Ill. 7, 10)

Remove the 3 screws 64, withdraw prism 271, taking care not to lose washers 45, 46, 47 or 48.
Unsolder short black connecting wire from regulating resistance 306, undo 2 screws 65 and 1 screw 71. Lift out exposure meter 291. Take out axle 18.
The winding gear 241 is held in place by the 3 screws 62.

Winding-gear housing, lens carrier (Ill. 1, 9, 11, 14, 15, 17)

Slacken grubscrew 173 slightly, withdraw bearing bolt 166, remove 2 screws 64 together with retaining plates 23 and 24, also 1 screw 65 and screw 19. Lift off gear housing 151 carefully.
Remove covering material 55 and 57. Undo 3 screws 62 and 1 screw 71, lift lens carrier 191 slightly (together with shutter 311), withdraw plug 22 and finally lift off lens carrier.

Dismantling the shutter (Ill. 5, 16)

As has already been pointed out, the shutter can be removed and re-fitted without having to dismantle the camera itself. Remove the 3 screws 219 with a long screwdriver and take off shutter 311. While doing so, pay careful attention to the toothed washers 227 and the locking washers 203, which prevent the 3 screws 219 from turning. The replacement of the shutter is described on page 13.

No special instructions are required for the further dismantling of the camera. Pay careful attention to all washers which may be freed when dismantling: these must all be replaced in the same positions upon re-assembly.

Assembling the sub-assembly groups

Body Housing (Ill. 22, 24)

The bearing plate compl. 122 (complete with light-capping and mirror flap) is placed within the body, with the short end of spring 138 lying on the housing so that the longer end is not yet engaged in the light-capping flap. Secure bearing plate 122 with 3 screws 127.

Fit angle 121 with screw 128 and replace the two forked levers so that the loose washer on angle 121 lies between the forks.

Before tightening screw 128, position angle 121 so that

a) the guide rivet in angle 121 is sufficiently far removed from the light-capping and mirror flaps that there is no possibility of their touching it;

b) the forked levers are not crossed, under tension or jamming angle 121.

c) The light-capping flap falls under its own weight after being raised to any position. Neither must it scrape against the housing.

The longer end of spring 138 is now replaced in the light-capping flap with a pair of pliers.

Test: Align mirror flap so that it lies absolutely level against both the measuring edges of gauge 126-00.000/703.

Lens carrier (Ill. 14 to 20)

Grease the shutter-speed cam 196 lightly with FM 1 grease and insert it. Check for smooth travel. Replace locking ring 204. Test travel of speed cam 196 once again. The cam must move easily and be free from any jamming etc. Fit shutter-speed lever 193 together with torsion spring 210. Rotate torsion spring 210 so that the shorter end is in front of the hole for screw 208. Screw in screw 208. Replace torsion spring 210 in the hole of speed lever 193. Test the movement of the shutter-speed lever 193. Fit rod 201 (202) (see Ill. 18) and secure with locking washer 220; the rod must not jam. Check that the riveted-in diaphragm lever moves freely.

Replace spring 207.

Screw in grubscrew 214. Fit spring 206 and secure at the loops with a little cement.

Grease the 3 screws 223 or 224 slightly and place them in position (see Ill. 19).

Threaded ring pre-ass. (Ill. 19, 20)

Grease threaded ring 231 with FM 1, also grease internal ring 233 and screw it into ring 231. Lay focusing ring 234 in position and secure with the 4 grubscrews 222 without tightening them. Then grease outer threaded ring 232 and screw it on to threaded ring 231 right up to its stop. Slacken slightly the 4 grubscrews 222 once again and rotate focusing ring 234 until the two threaded holes which lie closest to the milled slot, are near the finger-grip, as shown in Ill. 19. Tighten the 4 grubscrews 222.

Notice: Since the threaded rings 231, 232 and 233 are turned together at the factory, it is advisable not to order individual rings, but preferably to obtain a matched set of all 3 rings under Order No. 230 (10.1272-03.003-U Threaded Ring pre-ass.).

Insert the 3 locking washers 203 in the clamping plate 194.

Set shutter to A and 1 sec. Grease driving spindle 215 slightly and fit on the shutter.

Rotate internal threaded ring 233 until it is approx. 0.2 mm lower than threaded ring 231 (see Ill. 20). Place the assembled threaded ring on to the shutter so that the slot of the focusing ring 234 engages with the shutter/diaphragm lever. Fit clamping plate 194 and secure firmly with the 3 screws 219, using 3 toothed washers 227. Rotate focusing ring 234 to the left until the opening on the clamping plate for the guide angle 199 lies in the centre of the focusing ring 234, i. e. between the two levers.

Turn the outer threaded ring 232 in a clockwise direction until the first hole after the slot is in the centre of the guide-angle opening in the clamping plate.

Set the shutter-speed cam 196 on the lens carrier to the last (highest) ratchet-stop (see Ill. 19). Fit the lens carrier, screw in screw 205, place guide angle 199 in position and secure with 2 countersunk screws 221. The movement of the focusing ring 234 can now be tested. Screw in the 2 screws 218 (using 2 toothed washers 227), placing the soldering tag 209 beneath the left-hand screw (Ill. 18).

Fit the guide angle (lower) 200, grease flange 195, drop into place and screw up tight with 2 screws 218.

Tension shutter with key 47 389 M/800 and check the overdraw of the blades. Observe the blades during opening until they are no longer visible. From this moment until the stop is reached there must be at least 1/2 tooth overdraw. This may be adjusted on the cam (see arrow, Ill. 16), after first slackening the 2 screws 228. If the adjusting movement on the cam is insufficient, then the flange 195 must be displaced by one tooth.

Adjust the engagement of the teeth of flange 195 with the rocking lever: there should be only a slight air-space.

Tension shutter fully with key 47 389 M/800, then let it run back by 1-2 teeth and hold it firmly. In this position turn the focusing ring 234 from one end-stop to the other and check the movement of the threaded ring. The focusing ring 234 must

a) move with uniform ease in either direction

b) be free from rough spots throughout its travel

c) possess no backlash.

The torsional moment of the focusing movement should not exceed 800 grammes, measured at the two finger-grips 235 and 236. Tension the shutter when set to A and 1 sec and allow it to run off: key 47 389 M/800 should be moved as the shutter is running off.

Set the shutter to f/2.8 and B. Tension it with key 47 389 M/800 and allow it to run off slowly until the blades open. When closing under its own power at the B setting the shutter must move the key with it. Test the insulation and synchronization (see Testing Instructions, Points 41 and 42).

Test: Disengage spring 207. Set shutter to A. Test the travel of the riveted diaphragm lever (from which spring 207 has been detached). When allowed to return slowly the diaphragm lever must return by its own power to its original position. Perform this test at the ∞ and 0.7 metre (2 1/2 ft) settings. Replace spring 207 once again and secure it.

Secure screws 205, 218 and 221 with lacquer.

Prism (Ill. 10, 21)

The assembly of the pentaprism 271 is illustrated in Ill. 21. The maximum cleanliness must be observed during this operation.

Exposure meter (Ill. 10,26)

The balancing and adjustment of the needle locking, the meter needle itself and the mask 298 is an extremely difficult and time-consuming procedure without the complex equipment and testing apparatus available at the factory. This applies also to the exchanging of the exposure meter movement. For this reason the exposure meter 291 is supplied only as a complete sub-assembly unit. Certain individual components do not affect the above-mentioned delicate adjustment and so do not fall under this restriction: these are shown in Ill. 10 and 26. For this reason it is advisable to maintain an adequate stock of exposure meter units 291 and to return all faulty meters to us for repair.

Winding gear 241 (Ill. 10, 25)

Insert control lever 243 with control spring 244 in bedplate 242 and secure with locking washer 245. Place locking lever 246 in bedplate 242, and make sure that it moves smoothly. Before tightening the bearing bush 247 with the 3 screws 248, adjust the cam in the bedplate 242 so that the bearing bush 247 is as far to the left (counter-clockwise movement) as possible. For the time being tighten the 3 screws 248 only gently. Insert film key bolt 249 together with gear spring 250 and attach the loop of the spring to the bolt of the bedplate 242 (see arrow, bottom of Ill. 25). Fit the lug of the film key bolt behind the stop pin by pressing against the power of spring 250. Now tension the spring by rotating the film key bolt twice in a clockwise direction, so that when winding is completed the lug is still seated behind the stop pin.

Caution: Align spring 250 so that all the turns lie neatly alongside one another.

Insert trigger bolt 255 and fit ratchet wheel 251 on the opposite side. The bore-holes must be lined up with the threaded screw-holes. The pawl ring 252 is then fitted, so that the riveted thrust pawl is on top. Rotate the lug carrying the thrust pawl in a clockwise direction right up to its stop. Place thrust clutch 253 in position and screw on with 3 screws 254 (without tightening the screws), taking care that the thrust pawl engages with one of the notches in the thrust clutch. Turn the winding-gear mechanism over and fit cam plate 256 together with spur wheel 258 and bevel gear 257 into the bedplate 242. The teeth must be meshed so that the cam points exactly to the stop pin, against which the lug of the film key bolt is resting. Then the cam plate should be lifted once again and rotated in an anti-clockwise direction to advance it by 1 tooth.

The left-hand edge of the cam will now touch the right-hand edge of the pin. Fit armature wheel 265 and stop pin 264, also locking lever 262 and spring 263, in place in the bedplate 242.

The bedplate 266 can now be attached (taking care that the armature wheel engages with the armature) and screwed down with 2 screws 248 (do not tighten these screws yet). Lift plate 266 and slip the end of spring 263 behind the spacing pin. Screw in screw 268 and tighten all 3 screws firmly, securing them with safety lacquer.

Test: if the cam plate 256 is raised with the finger, it must return smartly to its initial position from any other position.

Fit bearing angle 260 and bevel gear 261 in bedplate 242 and screw in position with 2 screws 248 (Ill. 10). The bearing angle 260 must be maneovered into such a position that the bevel gear 261 engages the bevel gear 257 without any strain, but also with the minimum of play. Attach the draw spring 269 to the locking lever 246 and to the bolt in the bedplate 242. Cement the loop of spring 269 to the bolt.

Adjusting the winding gear 241

1. The following procedure need only be followed when fitting a new bedplate 266.
   Adjust the meshing of the armature and armature wheel by bending the punched-open holder of the armature spindle, so that one armature tooth always covers half the face of one of the armature wheel teeth. This can be observed through the bore-holes in the baseplate.
2. The winding gear is tensioned by turning the pawl ring 252 in a counter-clockwise direction until it stops. Slacken the 3 countersunk screws 254 slightly and rotate the ratchet wheel 251 in a clockwise direction up to its stop, then allow it to return until the arrester lug of the film key bolt 249 is 1 mm in front of the stop pin 264. Tighten the 3 screws 254 firmly and secure with safety lacquer.
   Test: When the gear is tensioned only the pawl ring 252 should rotate right up to its stop. There should be approx. 1 mm air-space between the arrester lug of the film key bolt and the stop pin.
   Adjustments may be performed by turning the cam in the bedplate 242.
3. Tension the winding gear. The arrester lever (riveted to the bedplate 266) must be adjusted so that its lug is exactly in the centre of the recess in the trigger bolt 255. This adjustment is performed with spanner 26 408 Tm/85.

Tighten the 3 screws 248, which hold the bearing bush 247 and secure them with lacquer. Also tighten the 2 screws 248 and the screw 268 on the bedplate 266.

Assembling and adjusting the complete camera

Attaching the lens carrier to the camera body (Ill. 14 to 16)

Lightly oil bearing bolt for spur wheel 40. Grease spur wheel 40 and fit in position.

Fit the lens carrier (resting on the shutter) against the camera body. Insert the connecting wires 211, 212 and the earth wire 213, together with the insulating sleeve 198, into the camera body: the end of the sleeve must be flush with the sheet-metal housing. Insert the plug 22 and press it down to the base of the camera body so that it holds the connecting and earth wires in place.

Fit the lens carrier in position and secure it by screwing up - not tightly - 1 screw 71 and 3 screws 62 (Ill. 14). Set focusing ring 234 to shortest distance. Pull the wires through so that

a) the earth wire 213 is almost taut (longer black wire);

b) the connecting wire 211 for the flash contact forms a small loop (brown wire);

c) the connecting wire 212 is almost taut (shorter black wire).

Attaching the winding-gear housing to the camera body (Ill. 9, 11, 13, 23)

Fit film sprocket 42 and washer 74 (75) as required into the camera body. Insert axle 38, and place bolt 109 on top of it. Insert the spindle with spur wheel 110 into the winding-gear housing 151. Carefully place the gear housing on to the camera body, taking care that

a) the 3 wires 211, 212 and 213 are kept taut so that they cannot be jammed between the two units;

b) the two scanning levers 158 and 159 engage on the mirror and light-capping flaps respectively;

c) the coupling lug of spindle 110 is parallel to the film plane and the position of film sprocket 42 is correct as measured with gauge 872/24 M/71.

The film sprocket must move easily whilst having no more than 0.1 mm axial play.

Screw the winding-gear housing 151 in place with screw 65, screw 19 and 2 screws 64. The retaining plates 23 and 24 are fitted beneath the screws 64, which are located near the connecting-wire guide. The function of these plates is to hold the wires 211, 212 and 213 in position. The earth wire 213 (longer black wire) should lie on the right, as shown in Ill. 9. Push home bearing bolt 166 and lock with grubscrew 173.

Before tightening the 3 screws 62 and the screw 71, fit the top capping 78 and hold it firmly in position. If necessary the lens carrier can then be moved slightly, so that its upper edge lies flush with the top capping.

Then tighten the 3 screws 62 and 1 screw 71.

Test: The light-capping and mirror flaps must move easily; with the diaphragm set to f/2.8, the shutter-speed ring must click-in perceptibly at all speed settings (from 500 to B and in reverse). Ensure that the shutter-speed lever 193, the end of which runs in the opening in the winding-gear housing, is moved by this action and does not stick. If, at the B-setting, the speed lever 193 is forced still further in the direction of the retaining plate 24, it must spring back of its own accord when released.

Fitting and adjusting the winding gear 241 (Ill. 6, 7, 9, 10, 25)

Fit torsion spring 270, place rapid-wind lever 198 in position, lay bearing flange 31 in place and provisionally screw down with 2 screws 67. Insert cogwheel 41 in winding gear 241.

Set the coupling lug of spindle 110 parallel to the film plane and adjust the position of film sprocket 42 by means of gauge 872/24 M/71 (see also Testing Instructions, Point 15). Insert winding gear 241 - in run-off state - into gear housing, screw in position with 3 screws 62, tension it and release. Finally check the position of spindle 110 and of the film sprocket 42 with gauge 872/24 M/71.

Slacken the 3 screws 259 by approx. 1/2 turn. This can be done through the two openings in the bedplate 242 of the winding gear (Ill. 7); one screw can be reached through each of the two openings whilst the gear is tensioned, and the third through the opening alongside the bearing bush 247 when the gear is in a half-tensioned condition. To loosen the third screw, it is necessary to pass the screwdriver into the gear mechanism from the side and press back the control lever 243. Then wind the gear right up to its stop.

The shutter is then tensioned by means of key 871/24 M/80. For this purpose the key is inserted through the opening in the front of the gear housing and rotated in a clockwise direction until it stops. It is now important to allow the key to turn back by about 1/6 to 1/8 revolution after it has reached its stop and then to hold it firmly in this position. The key should not be withdrawn until at least one of the 3 previously-loosened screws 259 has been retightened. Finally tighten securely all 3 screws 259.

Tests:

1. Wind and release camera several times, checking that there is no roughness in the winding action.
2. Wind the camera slowly until the shutter blades begin to open. At this point the light-capping flap should already lie securely against the camera body. If this is not the case, the 3 screws 259 must be loosened once again and the adjustment of the bevel gear 257 slackened by approx. 1 tooth with key 871/24 M/80.
3. Wind the camera slowly once again until the shutter can be heard to engage. There must still be a slight overdraw after the shutter has engaged.
4. When the shutter is tensioned the tips of the shutter blades should at the most be only just visible. Adjustment should be made on cam (see arrow, Ill. 16). If this is not enough, the flange 195 must be displaced by one tooth.
5. Release shutter set to f/2.8 and B. Check that the B setting functions correctly and that the shutter closes when the release is let go.

Lens focusing (Ill. 2, 20)

The distance scale 20 or 21 must first be removed to gain access to the 4 screws 222.

Screw out screw 237, which holds finger grip 236 in positon and take off grip 236. Then slacken slightly screw 237, which retains grip 235 and detach distance scale 20 or 21. Tension the camera, set shutter to B and f/2.8. Focus lens to ∞ on collimator. Loosen the 4 screws 22 at the ∞ setting, turn focusing ring 234 to the ∞ stop and re-tighten the 4 screws 222.

If the lens cannot be focused correctly, because the distance between the lens and the focal plane is still too great at the ∞ stop, first slacken off the 4 screws 222 slightly and turn the focusing ring a little way away from the ∞ stop. Then provisionally re-tighten 2 of the screws 222, focus the lens to ∞, loosen the 2 temporarily tightened screws 222 once again, rotate the focusing ring 234 up to the ∞ stop and finally tighten all the 4 screws 222.

Test the lens focusing once again. Check the smooth running of the focusing movement over the entire focusing range from the shortest distance to ∞.

Secure the 4 screws 222 with safety lacquer. Fit the distance scale 20 or 21 and first clamp it beneath finger grip 235 so that the ∞ symbol is exactly centered opposite the index mark on the shutter. Attach grip 236 with screw 237, and secure both screws 237 with safety lacquer.

Intermediate test

1. The retaining plates 23 and 24 must fit exactly and on no account project upwards. This is particularly important, since otherwise when the exposure meter is later fitted, the long lever (see arrow, Ill. 26) may foul the retaining plate 24 or the toothed segment may catch on retaining plate 23. This will retard the shutter-speed disc which is mounted on the exposure meter.
2. Test insulation of connecting wire 211 and earth wire 213 at shutter setting A, 1 sec.
3. If control wires 212 and 213 are connected to a circuit tester, no current-flow should be observable at shutter setting A, 1 sec. When the shutter setting is changed from A to Manual however, a flow of current should be established.
4. At shutter-speed setting 500 and aperture f/4, check that the light-capping flap is raised before the shutter opens.

Fitting the exposure meter (Ill. 7, 9, 18, 26)

Unscrew screw 214 (Ill. 18) - this is only necessary when fitting a new exposure meter - so that only the end, into which the scanning lever 60 is inserted later, projects by about 0.3 mm. Tension the camera, set shutter to A and 500. Insert scanning lever 60 (Ill. 9). Grease axle 18 lightly and fit in position.

Before the exposure meter is attached, the lever (see arrow, Ill. 26) must be pulled back from its terminal position with the aid of a fine thread, so that it will be to the left of the shutter-speed lever 193 when the exposure meter is inserted (Ill. 9). Later, when the shutter speed is adjusted, the speed lever 193 must move the former lever (see arrow, Ill. 26) with it.

Fit the exposure meter 291 into position (Ill. 28), taking especial care to ensure that the lever 293 is not pushed too far inwards. This lever 293 also operates the red exposure-limiting mask in the exposure meter; under no circumstances should this mask move beyond f/22.

Important: If the lever 293 is moved so far inwards that the red exposure-limiting mask extends beyond f/22, the adjusting tags on the bridge of the exposure meter will be bent, with the result that the entire adjustment of the needle will be thrown out of balance. If this occurs a new exposure meter will have to be fitted and the defective meter returned to the factory for repair.

Screw exposure meter 291 in position with 2 screws 65 and 2 screw 71. Pull out the fine thread. Check the smoothness of the rewinding.

Apply adjusting gauge 126-00.000/708 (Ill. 29). If this gauge is not available, then provisionally attach ring 101 (102), ring 15 and spring 14.

In Ill. 29 the adjusting gauge 126-00.000/708 is shown at 650 ASA. If the gauge is rotated until the cam of lever 243 butts up against its stop, this position corresponds to 40 ASA.

Rotate the cam of lever 293 so that

a) at 40 ASA and 1 sec the red exposure-limiting mask inside the meter lies at f/4

b) at 650 ASA and 1 sec the red exposure-limiting mask inside the meter lies at f/16.

The permissible tolerance is ± 1/4 of a graduation.

Provisionally attach prism 271 and check that the shutter-speed disc, which is attached to the exposure meter, is not jamming or touching the prism cradle. Check the internal and external readings.

Tolerance at f/8 = 1/4 of a graduation.

Remove prism 271 once again.

Adjusting the shutter-speed indicator disc.

Tension the camera. Set shutter to "Manual" and B setting. Using hook 126-00.000/805, turn the shutter-speed disc in a clockwise direction to "B". Rotate shutter-speed setting ring 319 from B to 500. The figure 500 must now appear on the indicator disc. If this is not the case, the cam can be adjusted from outside the housing (see arrow, Ill. 3). Test at B and 500 once again. Replace prism temporarily, set to all shutter speeds in succession and check that the speeds are clearly legible. Remove prism once again.

Adjusting the diaphragm (Ill. 18)

Connect up photo-cell 97 provisionally by soldering. Tension camera and set to A. Now adjust the aperture so that when the exposure meter pointer indicates f/4 and the shutter is released, the aperture value on the shutter is also 4. (Compare with manually-set aperture values).

Adjust by means of screw 214, after slackening the locking grubscrew 222 slightly (Ill. 18). (In order to reach screw 214, the grubscrew 123 must be temporarily removed together with slotted nut 124).

Important: Before the screw 214 can be adjusted, the shutter must first be set to "Manual". If this is neglected, the pointer lock may be bent when the meter is adjusted, which will necessitate replacing the exposure meter.

If the aperture shown on the shutter is smaller than that indicated by the exposure meter, then screw 214 must be turned in a clockwise direction. If the aperture is too large, turn the screw in a counter-clockwise direction. After every adjustment of screw 214, the camera must be tensioned and the shutter set to A for testing.

Perform similar tests at f/16, 22 and 2.8. A difference must be observable between f/16 and 22, likewise between f/2.8 and 4 (compare with manual aperture settings). Tolerance: ± 1/2 f/stop.

Check that the pointer moves freely over its entire range. If necessary turn screw 214 back by about 1/16 revolution. Tighten locking screw 222 (Ill. 18). Check that meter does not stick when held at an angle.

Exposure meter calibration (Ill. 7, 10, 29)

The calibration of the exposure meter can only be tested when the meter is fitted in position, i.e. only in conjunction with the camera. Fit adjusting gauge 126-00.000/708 (Ill. 29) or temporarily attach ring 101 (102) and ring 15. The aperture and shutter-speed values given in the Exposure Meter Testing Case (Beli-Prüfkoffer) VE 33 should be tested on the camera. Set the film speed to 32 ASA.

Corrections to the calibration in the lower measuring range can be made by adjusting the cam on lever 293. The calibration of the upper measuring range is controlled by varying the regulating resistor 306. Test the calibration in both upper and lower ranges once again.

Tolerances: Step 1 (baffle 1) = ± 1 division

Steps 2 to 4 = ± 1/2 division

To compensate for the effects of temperature on the calibration, thermistor resistors are incorporated. When repairing exposure meters fitted with thermistors the following points should be borne in mind:

1. The thermistor is wired in series with the resistor.
2. The thermistor is highly temperature-sensitive. The resistance should be measured at between 20° and 25°C (68 - 77°F). Time should therefore be allowed for cooling after soldering.
3. The thermistors are extremely sensitive to mechanical stresses.

The greatest care should be exercised when bending ends of wires and when adjusting the position of the thermistors after soldering.

Checking the movement of the meter needle

1. Tension the camera, set the shutter to A. Using a suitable source of light, adjust the shutter-speed ring 319 so that the meter needle points fo f/22. Continue moving the shutter-speed ring through 6 click-stops and then check that the meter needle has also moved by 6 divisions.
   Tolerance over the entire range: 1/2 division.
   If the needle movement appears retarded, the meter window and if necessary also the mask 298 must be smeared with an anti-static preparation, since this fault will be caused by static charging. For this reason great care should be taken not to wipe this window more often than is necessary, as this will create a static charge.
2. Unsolder the connections of photo-cell 97. Set the shutter-speed ring 319 to 1 sec and the film speed to 650 ASA. At these settings the red exposure-limiting mask should be between f/8 and f/22. If the film speed setting is now altered from 650 ASA to 40 ASA, the red mask must move back by 4 divisions. For example: from f/16 at 650 ASA to f/4 at 40 ASA, or from f/22 to f/5.6. Tolerance: 1/2 division.
   If any discrepancy is noticed as a result of this test, then the cam on lever 293 must be rotated through 180°. Finally test the meter calibration once again.
3. At 650 ASA and with the photo-cell 97 unsoldered, the meter needle must always remain within the red exposure-limiting sector and not move out of this sector when the shutter-speed ring 319 is rotated. This means that the distance between the edge of the exposure-limiting mask and the exposure meter needle should not alter as the ring is turned.

Mounting the prism in the camera (Ill. 7, 10)

Insert the prism 271, replacing the original packing washers to ensure that the reflected aperture scale and the image area are lined up accurately. Secure prism 271 by tightening 3 screws 64.
Set rangefinder accurately to ∞ by means of adjusting screw 123 and lock the latter against displacement with nut 124, employing special screwdriver 52 346 M/80.

Fitting the top capping 78 (Ill. 6 to 8)

Carefully insert frame ass. 93 in the top capping 78, so that the polished surfaces of the frame are not scratched. Screw up retaining plate 11 with 2 screws 66. Solder short blue photo-cell lead to retaining plate.

Solder long red photo-cell cable to contact bridge in top capping (Ill. 7). Solder connecting wire 221 to flash nipple. Solder one of the grey exposure meter cables 303 and the earth wire 213 to the retaining plate 11 (Ill. 7). Solder the other grey exposure meter cable 303 to the contact bridge. Solder connecting wire 212 to the end of the thermistor 305.

In recent models the soldering point for the connecting wire 212 has been transferred from the thermistor to the contact bridge. This has been done to protect the sensitive thermistor soldering point. Cameras featuring this alteration can be identified by having a longer, blue connecting wire 212.

Fit top capping 78 with care, taking pains to arrange the connecting wires between the prism and the exposure meter so that they are not trapped, and are not visible from the outside through the lens 82 or through the viewfinder eyepiece.

Secure the top capping with countersunk screw 68 and 2 chrome-plated screws 63.

Assembling the rapid-wind lever 108 and the frame counter (Ill. 2, 6)

Screw in threaded bush 30 with grubscrew 70 (Ill. 6). Insert torsion spring 270, fit rapid-wind lever 108 in place, seat pressure spring 28 in position, fit bearing flange 31 with release nipple 29 and screw up tight with 1 screw 67 and 1 screw 62. Screw 62 (with the large head) must be screwed in at the point indicated in Ill. 6. Secure leaf spring 32 with two further screws 67. Screw up control spring 33, and control ring 34 together with threaded nipple 35 (left-hand thread) by means of key 861/24 M/80.

Rotate control ring 34 so that the tip of control spring 33 is visible through the larger aperture. Tension rapid-wind lever 108 completely and leave it in this position. The control spring 34 must now rest approximately in the centre of the shallow-pitch toothed track on the control ring. Allow the rapid-wind lever to return slowly and observe the white index mark of control ring 34. The movement of the control ring at the end of the return swing of the winding lever should be approximately 0.3 to 0.5 mm. It may be adjusted by moving the leaf spring 32, after undoing the two screws 67.

Screw on the counter disc 36 with nut 25, so that

a) The index mark of the control ring 34 is pointing to one particular stroke on the counter disc.

b) the figure 1 is pointing rearwards, towards the camera back.

Adjusting the release action and B setting (Ill. 2, 6)

This adjustment is performed with the aid of the special screwdriver 871/24 M/61, passing it through the release nipple 29. Tension the camera, set the shutter to "Manual" and B. Depress the release nipple slowly and observe its travel between the opening of the shutter and the release-nipple stop. Now allow the nipple to rise slowly and note the length of its travel between the closing of the shutter and the upper nipple-stop. These two over-run movements must be appoximately equal length; adjustments should be made with special screwdriver 871/24 M/61. When the adjustment is completed, lock the setting by turning the screwdriver to the right.

Assembling the rewind mechanism (Ill. 2, 6)

Fit ring 101 (102) in position, attach spring 17, cogwheel 13 and bedplate 103. Secure firmly with 2 shoulder screws 26. Attach ring 15 and spring 14 with 2 screws 67.

If the ring 101 is set to the dull-weather mark and allowed to return slowly, it should be restored to its normal position by means of spring 17 without any interruption, or retardation.

Screw on hub 104 and tighten gently with key 126-00.000/800, to avoid damaging any teeth in the rewind mechanism. Screw home nut 16 with key 126-00.044/800, whilst holding hub 104 firmly with spanner 865/24 M/804. Fit spring washer 27, scale 105 and ring 12 together with lever 106, secure with 2 screws 69.

Photometric measurement with galvanometer

Repair workshops which have either an Exposure Meter Testing Case (Beli-Prüfkoffer) VE 33 or an MG 4 galvanometer at their disposal, will be able to perform photometric tests.

The measurement is made with baffle 3, at 32 ASA, shutter speed 1/30 sec. and aperture f/8. Tolerance on galvanometer ±3/4 division. When the calibration of the exposure meter and all preceeding adjustments have been made correctly, only minor deviations at the most should occur. In this event gently re-adjust the adjusting screw 214 or the regulating resistance 306. Check the calibration once again.

Inserting the shutter (Ill. 5, 20)

Release the camera, set focusing ring 234 to ∞. The inner threaded ring 233 must be approx. 0.2 - 0.3 mm below the level of threaded ring 231 (see Ill. 20).

The shutter-speed cam 196 must be at the last stop (as viewed in a counter-clockwise direction of movement (see Ill. 5). Set shutter to A and 1 sec. Rotate lug of automatic flash-control disc of shutter in a clockwise direction, right up to its stop (see Ill. 5, centre).

Carefully insert the shutter, introducing the follow-up pins first. Take care that the lug of the automatic flash-control disc engages in the slot of the focusing ring 234. Secure the shutter with 3 screws 219, employing washers 203 and toothed washers 227 to ensure that the 3 screws 219 cannot work loose.

Test: Set shutter to aperture f/2.8 and B. When the camera is fully tensioned, the tips of the shutter blades should at the most be only just visible. This can be adjusted by means of the cam (see arrow, Ill. 16).

Test the ∞ focus and adjust if necessary (see page 8).

Conversion from metres and DIN to feet and ASA

To convert the camera for working in feet instead of meters, scale 20, guide number scale 317 and ring 101 must be exchanged.

Scale 20, which is held in place by finger grips 235 and 236, is easily replaced (see Ill. 2).

Likewise exchange the guide number scale 317, which is held in place by grip 315 (Ill. 4).

In order to exchange ring 101, however, the rewind mechanism must be dismantled. (See page 2, section "Rewind mechanism" and page 12, section "Assembling the rewind mechanism".)

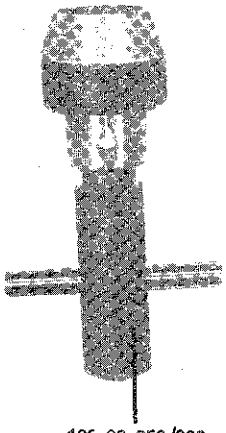
metres - DIN			feet - ASA		
No.	Order No.	Name of part	No.	Order No.	Name of part
20	10.1272-00.048	Scale (metres)	21	10.1272-00.049	Scale (feet)
101	10.1272-00.070-U	Ring (DIN)	102	10.1272-00.025-U	Ring (ASA)
317	1110 30 556 541 01	Guide No. scale (for metres/DIN)	318	1110 30 556 551 01	Guide No. scale (for feet/ASA)

Special tools for Contaflex super B Cat.Nr. 10.1272

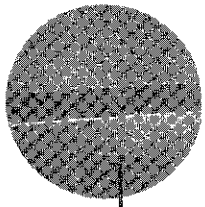
The following special tools are required for repairing the Contaflex super B:

1. Collet for nut 25	126-00.053/800
2. Holder for coupling dog 170	126-00.000/804
3. Spanner for hub 104	865/24 M/804
4. Key for hub 104	126-00.000/800
5. Key for nut 16	126-00.044/800
6. Gauge for mirror flap	126-00.000/703
7. Adjusting gauge	126-00.000/708
8. Gauge for film sprocket 42	872/24 M/71
9. Hook for adjusting the speed disc	126-00.000/805
10. Spanner for adjusting the winding gear stop	26 408 Tm/85
11. Winding key for shutter 311	126-07.001/703 Pos. 8
12. Key for adjusting the shutter overdraw	871/24 M/80
13. Key for tensioning the shutter on the lens carrier	47 389 M/800
14. Key for threaded nipple 35	861/24 M/80
15. Special screwdriver for adjusting the mirror	52 396 M/80
16. Key for screw 294	126-06.000/815
17. Special screwdriver for adjusting "B" setting	871/24 M/81
18. Spanner for nut 161 (not illustrated)	52 414 M/84
19. Gauge for take-up friction (not illustrated)	126-02.030-U/700

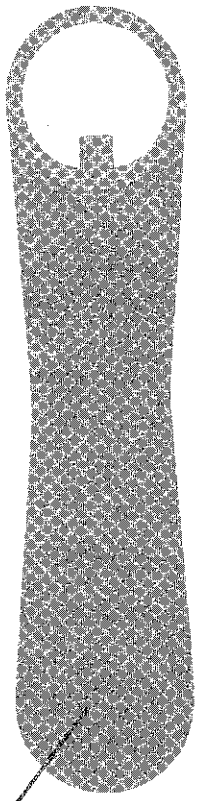
The tools Nos. 3, 8, 10, 12, 13, 14, 15, 17 and 18 are already in use for earlier models.



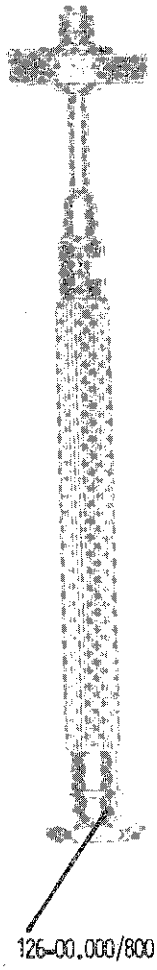
126-00.053/800



126-00.000/804



865/24 M/804



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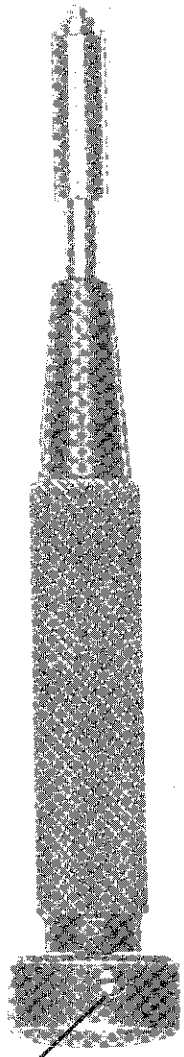

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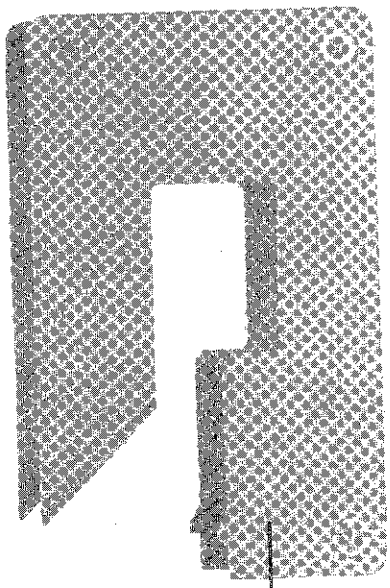

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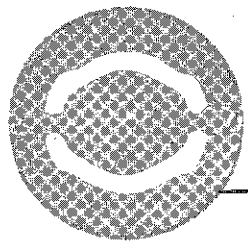

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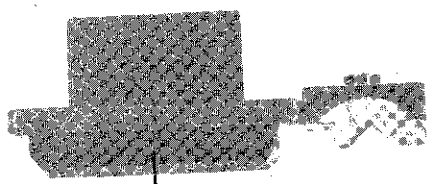
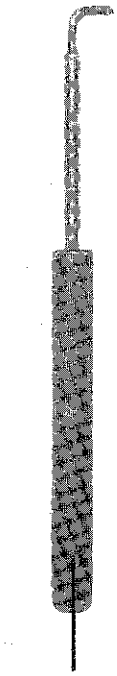


872/24 M/71



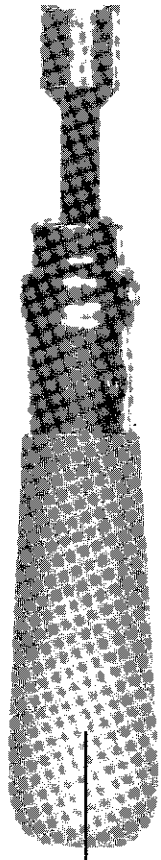
126-00.000/805

26 408 Tm/85

126-07.001/703
Pos.8

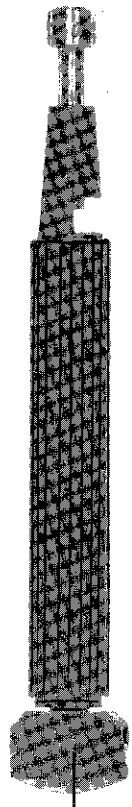
871/24 M/80

47 389 M/800



861/24 M/80

52 346 M/80



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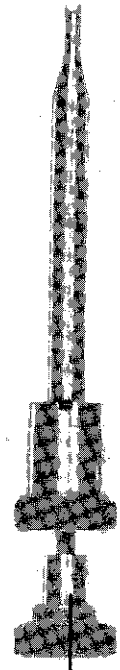


871/24 M/81

Lubrication Chart for Contaflex super B, Cat.No. 10.1272

Sub-assembly	Part	Lubrication point	Ill.	Lubricant
Winding-gear housing 151	Dog 181	Bearing	12	FS 9
	Cogwheel 153	Friction surfaces and teeth	11,12	FS 9
	Spur wheel 155	Friction surfaces	11,12	FS 9
	Cogwheel 156	Bearing	11,12	FS 9
	Dog 157	Bearing	12	OS 2
Lens carrier ass. 191	Speed lever 193	Bearing and friction point	18	none
	Threaded ring pre-ass. 230	Inner and outer threads	19	PM 1
	Flange 195	Bearing point and teeth, inside and out	18	FM 6
	Speed cam 196	Friction points	5,19	PM 1
	Guide angle 199 and 200	Friction surfaces	18	PM 1
	Driving spindle 215	Friction points	5,18	FM 6
Winding gear compl. 241	Ratchet wheel 251	Friction points	25	FS 9
	Pawl ring 252	Friction points, bearing point for pawl	25	FS 9 OS 2
	Locking lever 246	Friction and bearing points	10,25	FM 6
	Release trigger bolt 255	Shaft of bolt and lug of release plate	25	FM 6
	Cam plate 256	Bearing pin Stop lug	25	OS 2 FM 6
	Bevel gear 257	Teeth	25	FM 6
	Control lever 243	Friction surfaces Bearing points	25	FM 6 OS 2
	Bevel and spur gear 261	Bearing point Teeth	25	OS 2 FM 6
	Locking lever 262	Bearing pin Friction point	25	OS 2 FM 6
	Armature wheel 265	Bearing pin Teeth	25	OS 2 none
	Armature 267	Bearing point	25	OS 2
Back compl. 321	Locking plates 337 and 338	Seating	27	FS 9
	Cam plate 324	Bearing ring Friction surface	27	OA 1 FS 9
	Idler roller 325	Bearings	27	OA 1

Sub-assembly	Part	Lubrication point	Ill.	Lubricant
Camera compl.	Axle 38	Friction and bearing point	13,23	FS 9
	Spur wheel 40	Bearing Teeth	13,16	OS 2 FM 6
	Spindle with spur wheel 110	Bearing points	3,13,23	FS 9
	Cogwheel 41	Bearing points	9	FM 6
	Axle 18	Bearing points	7	FS 9
	Cogwheel 13	Bearing point	6	FM 6

Sundries

In addition to the oils and greases specified in the lubrication chart, the following preparations are required:

1. Safety lacquer, black
2. Safety lacquer, chrome-coloured
3. Touching-in lacquer, black (air-drying)
4. Adhesive tape, black (12 mm wide)

Testing Instructions

A. Mechanical tests and controls

Lens and shutter

1. The focusing ring 234 must
   a) move smoothly and uniformly
   b) have positive stops at either end of its travel.
2. The spring-loaded catch lever on the bayonet must be depressable to allow the front lens element to be locked in position.
3. The front lens element must lock when inserted and seat in the bayonet mount without axial play.
4. The M 27x0.5 mm filter thread in the front lens-element ring must be undamaged.
5. The shutter-speed setting ring 319 must
   a) be adjustable from 500 to 1 when the selector ring is set to A. (It should not be possible to set it to B).
   b) should be adjustable from 500 to B at the "Manual" or flash settings.
   c) should lock in positively at all speed settings.
6. The selector ring
   a) must be continuously adjustable when the key alongside the A setting is depressed.
   b) must lock in at all the marked aperture and guide number settings and at A.
   c) should not permit the selection of A when the shutter speed ring is set to B.
7. The synchro-selector lever
   a) should not permit changing-over from X to M or from M to X until the locking lever has first been depressed.
   b) must be adjustable from X to V without depressing the locking lever and then, when the camera is tensioned, must lock-in at the V-setting. When the camera is not tensioned it must spring back to X once again.
   c) must spring back to X when the tensioned shutter is released on the V setting.
8. When the flash range is selected on the selector ring, the available focusing range should be restricted as follows:

Guide No. (f=50 mm)		Available focusing range	
for metres	for feet	metres	feet
10	32	0.85 to 3.5	2.8 to 11.5
14	45	0.9 to 5	2.95 to 16.4
20	65	1 to 7.5	3.3 to 24.6
40	130	1.8 to 7.5	5.9 to 24.6
80	260	3.5 to 7.5	11.5 to 24.6

Camera compl.

9. The carrying-strap eyelets must be attached firmly to the camera body.
10. The camera must be fitted with the appropriately matching scales:

metres - DIN	feet - ASA
Focusing scale in metres	Focusing scale in feet
Guide No. scale from 10 to 80	Guide No. scale from 32 to 260
DIN film-speed scale	ASA film-speed scale

11. The ring 15 bearing the setting mark for the film-speed scale must

a) lie on the scale ring under spring tension. Lifting the knurled ring from one side by 0.5 mm must require a pressure of at least 150 grammes.

b) permit setting to any value on this scale when lifted and then lock in at the selected setting.

c) rotate, together with the film speed scale, from the sun symbol to the cloud symbol and turn back automatically to its initial position even when released slowly.

Camera back

12. The back must

a) be easy to slide on to the body.

b) fit tightly and without play against the body when locked.

c) prevent any light from entering the film chambers and track.

13. The locking catches must be easy to operate, and must be impossible to rotate when the handles are folded flat. The catch on the take-up side must

a) decouple the film-wind sprocket when set to "R".

b) couple the film-wind sprocket once again when the handle is turned back to the "Locked" position.

The pressure plate must be smooth and undamaged. The film-guide idler roller must revolve smoothly in its bearings.

Film advance, frame counter and release mechanism

14. The rapid-wind lever must

a) swing without jamming right up to its stop.

b) spring back smartly to its initial position.

c) not be possible to move from its rest position unless the shutter has first been released.

15. The film-wind sprocket 42 must be positioned so that one pair of teeth are within the two markings on the film sprocket gauge 872/24 M/71 when the camera is tensioned. To take this measurement the film-wind sprocket should be turned as far as it will go in the opposite direction to that in which the film moves.

16. The coupling dog 182 (take-up friction) must rotate with a torsional moment 160 to 220 cmg.

17. When the rapid-wind lever is swung right up to its stop

a) the light-capping flap must spring down against the housing to render it light-proof before the mirror flap moves and the shutter blades commence opening.

b) the mirror flap must swing down into the ray-path of the lens.

c) the diaphragm and shutter must open to their full extent.

d) the shutter must be tensioned fully; the shutter tensioning lever must be cleared before the rapid-wind lever reaches its stop.

e) the index ring of the frame counter must move back by one gradation stroke.

f) the coupling dog for the magazine frame counter must rotate through 2 revolutions; rest position: parallel to film track.

18. The following sequence of operations must take place when the release button is depressed:

a) the shutter closes.

b) the mirror flap springs up and forms a light-tight seal against the winding-gear housing.

c) the light-capping flap springs up.

d) the diaphragm closes to the pre-selected aperture (or to that recorded by the exposure meter).

e) the shutter opens to expose the film, but not until operations a) to d) have been completed.

f) the shutter-tensioning and film-advance mechanism are released to permit the shutter to be re-tensioned and the film wound on.

19. With the shutter set to 1/500 sec and f/4, the full diameter of the shutter opening should be visible upon looking over the upper edge of the film gate when the shutter is released.

20. With the shutter set to 1/500 sec and f/22, the minimum diameter of the diaphragm opening must be visible when the shutter is released.

21. The release button and frame-counter scale

a) should be impossible to rotate.

b) should be depressed smoothly on application of 1000 grammes maximum pressure when the shutter is tensioned and so release the shutter.

22. The index ring of the frame counter must

a) revolve in the direction of the arrow.

b) lock immediately when turned in the opposite direction.

c) always stop with the tip of the setting mark pointing to a graduation stroke.

23. The counter disc 36 must lie so that an imaginary line drawn through the "10" and "30" graduations runs parallel to the camera back and the figure "1" is on the side nearest the camera back.

24. It must be possible to rotate the rewind knob continuously in either direction.

25. The crank of the rewind knob must be lifted by the pressure of a finger in the groove and spring into its operational position.

26. The film-type reminder disc must be adjustable by pressing on the small knobs.

Exposure meter

27. The exposure meter must be dust-proof.

28. Zero point

When the auto-control mechanism is disengaged (selector ring set to manual-control or flash range) the exposure meter is short-circuited and consequently the needle must remain within the upper red sector (as seen in the viewfinder) or the red exposure limiting mask (as seen in the window in the top plate), whatever the setting of the shutter or the position of the camera.

29. Jamming

The pointer must not jam at any point within its operating range or in any angle at which the camera may be held.

30. Balance

The pointer must not deviate by more than half a division from the reading shown when the meter is on a horizontal axis, no matter at what angle the camera may be held.

31. When adjusting the shutter speed setting by 6 click-stops, the needle reading must likewise move through 6 divisions; tolerance $\pm$ 1/2 division.

32. The internal and external readings must agree; tolerance: ± 1/4 division at f/8.

33. The pointer of the internal meter display (viewfinder)

    a) must still be visible at both end-stop positions.

    b) intersect the scale at right angles at one point within its operating range.

34. The red exposure-limiting mask

    a) must move down to f/22 when the camera is set to 650 ASA and 1 sec.

    b) must not cover the green sector when the camera is set to f/2.8.

35. When the shutter speed is altered by 5 click-stops (in the direction of B), the position of the red exposure-limiting mask must likewise move through 5 divisions; tolerance ± 1/4 division. If the shutter speed ring is then turned back, a backlash of 1/2 division is permissible at the point of reversal.

36. When the red exposure-limiting mask (external meter window) is at f/2.8, then no more than half of the figure 2.8 should lie within the red sector of the internal meter display.

37. When ring 15 is turned from 40 to 650 ASA, the red exposure-limiting mask should move through 4 divisions; tolerance ± 1/4 division, corresponding to the width of one stroke-mark on the aperture scale.

38. Rapid correction

    When ring 15 is turned from the sun symbol to the cloud symbol, the meter needle and the red exposure-limiting mask must move by 1 + 0.5 division in the direction of increasing aperture.

    If ring 15 is depressed without turning it (pointing the camera either towards the subject or away from it), then the needle and the red exposure-limiting mask should not deviate by more than 1/3 division.

B. Electrical measurements and tests

39. The calibration of the exposure meter must conform to the tabular values provided with the Exposure Meter Testing Case (Beli-Prüfkoffer) VE 33. The maximum permissible deviation of the calibration values is ± 1 f/stop.

40. The contacts for X-synchronization (and also at the V-setting) must close at the moment the shutter is fully open. When the synchro-selector is set to M, on the other hand, the contacts must close to trigger the flash before the shutter is fully open. If it appears advisable from the nature of the repair operation being performed, test procedures 41 and 42 should be carried out.

41. If a direct current of 500 volts or an alternating current of 350 volts eff. is applied for 1 second between the bush and the sleeve of the flash nipple, no spark-over should take place.

42. The insulation resistance between the nipple bush and sleeve should be at least 10 megohms.

C. Optical tests

Lens

43. At full aperture the f/2.8, 50 mm Tessar lens must

    a) at all settings of the distance (focusing) scale produce a sharp image in the focal plane, at the centre of the film gate, of objects at the distance focused upon. Tolerance at ∞ ± 0.04 mm.

    b) be positioned so that its optical axis is parallel to the film plane.

The focal plane is the mean film plane and lies 0,18 mm in front of the outer film-track ribs (bearing surfaces for the pressure plate).

The subject-distance settings on the lens are measured from the focal plane.

Viewfinder

44. The viewfinder must

a) be clean and free from dust; isolated minor flecks are allowable, but not any accumulation of dust.

b) not contain any disturbing reflections.

c) have a sharp, clear-cut edge and a black surround.

45. When looking straight into the viewfinder with the Pro-Tessar f/3.2, 35 mm, f/3.2, 85 mm or f/4, 115 mm lens attached, no vignetting should be observable in the viewfinder or on the exposure-meter display.

46. The viewfinder image must reveal no parallax relative to the film gate.

47. The coloured sectors of the exposure-meter display

a) must be parallel to the right-hand edge of the viewfinder mask.

b) should not be shaded or vignetted.

48. The aperture values f/2,8 to f/22 must be visible within the red/white sectors of the internal meter display.

49. The shutter-speed setting in use (B to 500) must be clearly visible beneath the coloured sectors.

D. General requirements

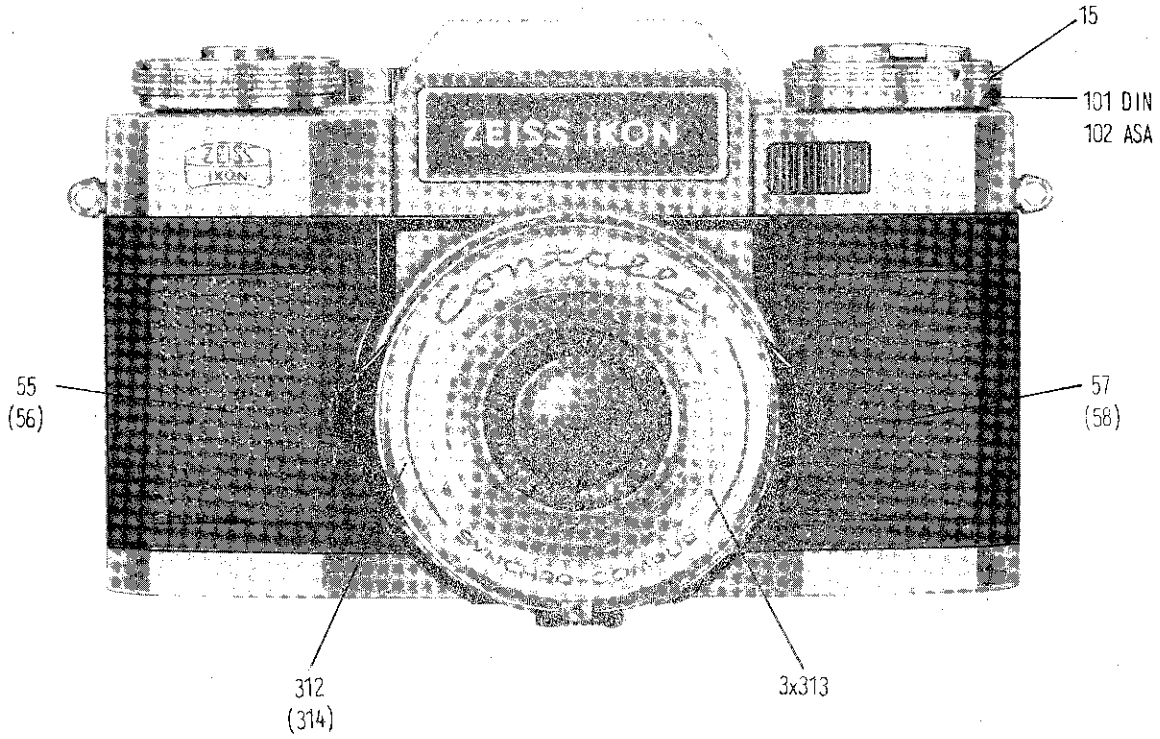
50. A film wound through the camera both forwards and backwards must be free from all trace of scratching within the area of the film gate.

51. The accessory shoe should not be damaged.

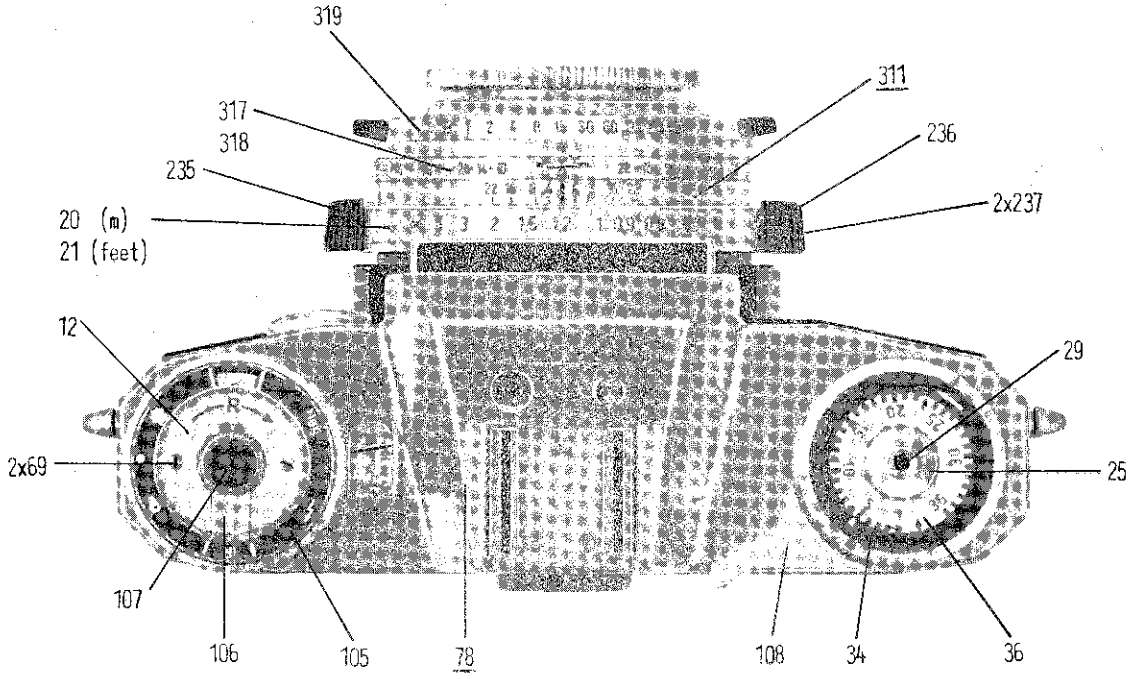
52. The lubrication of the camera must be performed in accordance with the lubrication chart.

Relationship between the distance, guide-number and aperture settings

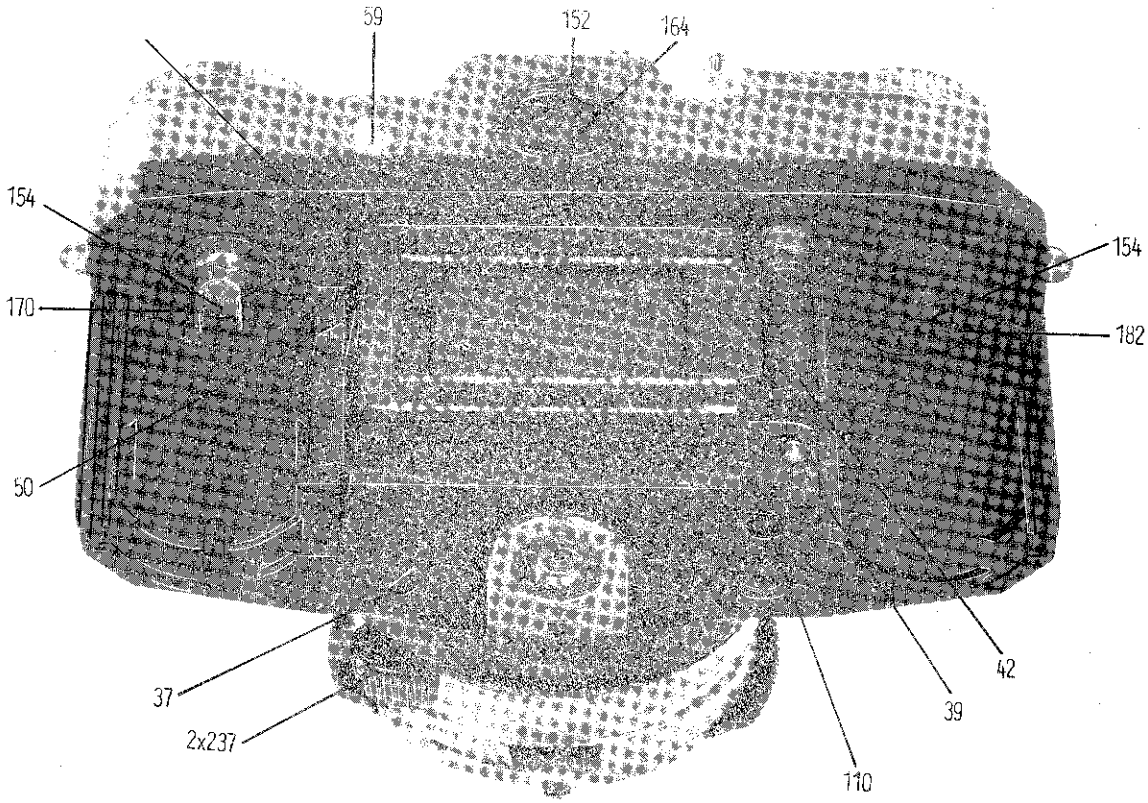
Distance		Guide number for f=50 mm		Aperture
metres	feet	metres	feet	
3,6	11,8	10	32	f/2,8
3,6	11,8	20	65	f/5,6
3,6	11,8	40	130	f/11
3,6	11,8	80	260	f/22
7,2	23,6	20	65	f/2,8
1,8	5,9	20	65	f/11
1,0	3,3	20	65	f/20


15
101 DIN
102 ASA
ZEISS IKON
55
(56)
57
(58)
312
(314)
3x313

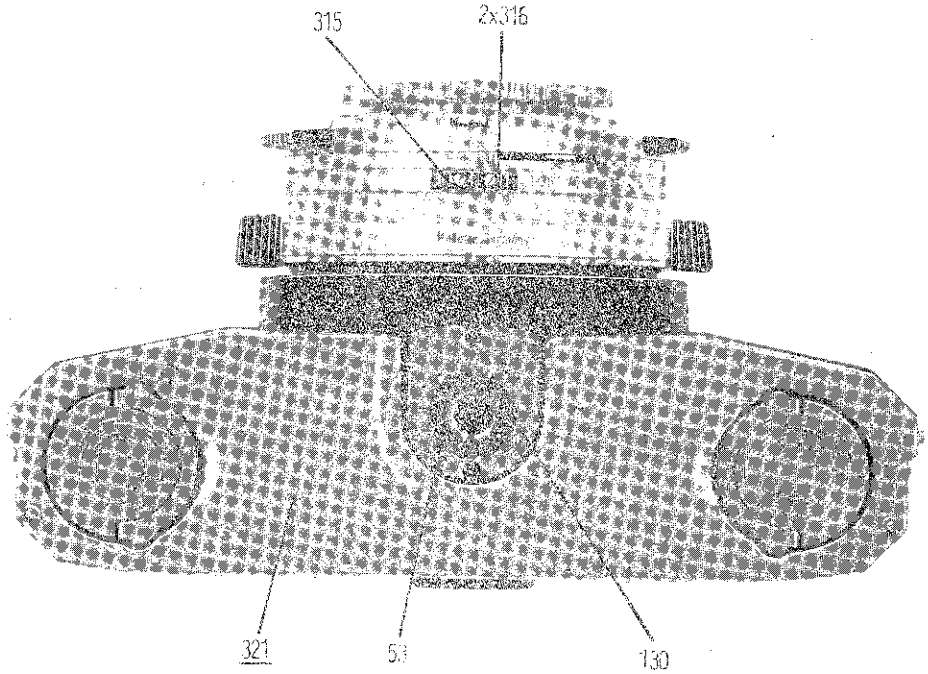
Ill.1


319
317
318
311
236
235
2x237
20 (m)
21 (feet)
12
29
2x69
25
107
106
105
78
108
34
36

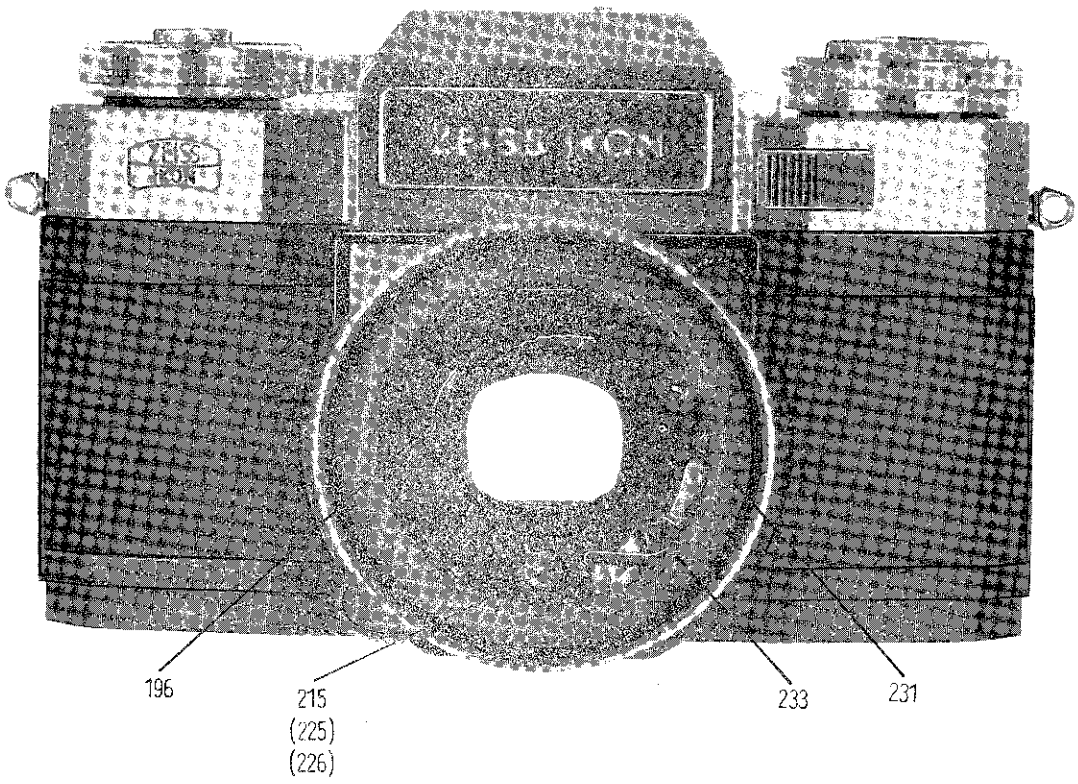
Ill.2

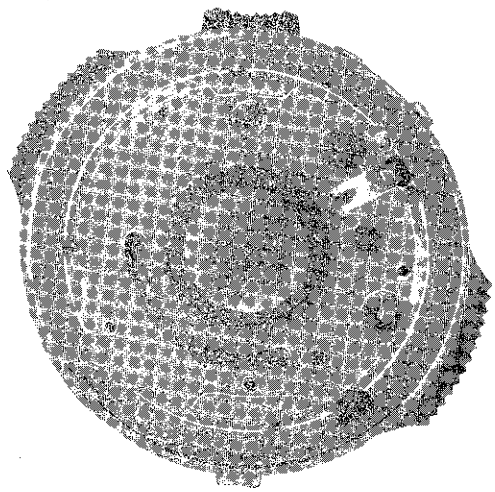

59
152
164
154
154
170
182
50
37
2x237
42
39
110

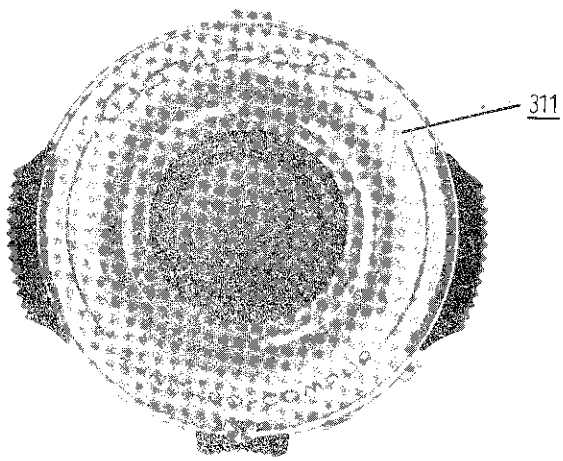
Ill.3


315
2x316
321
53
130

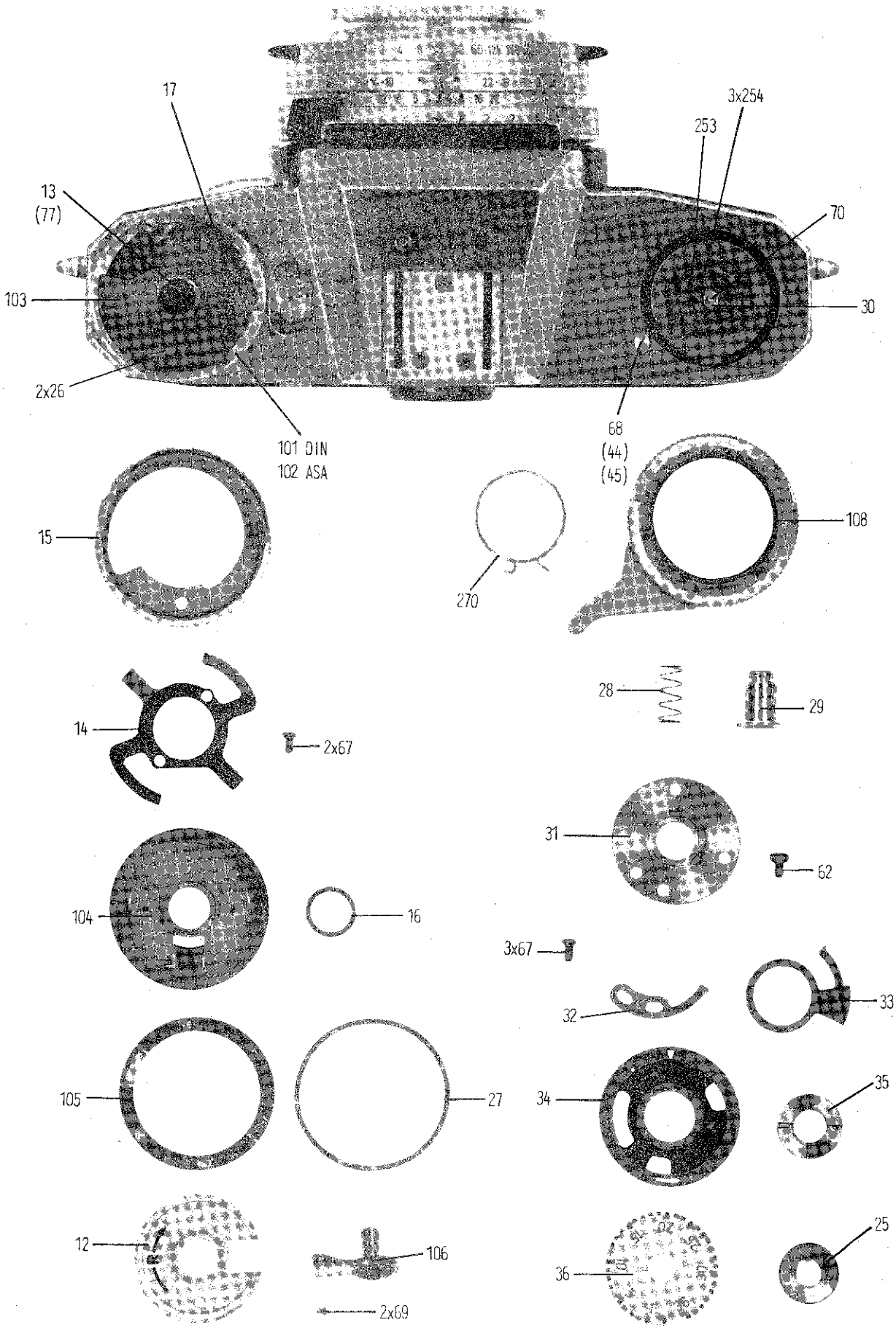
Ill.4



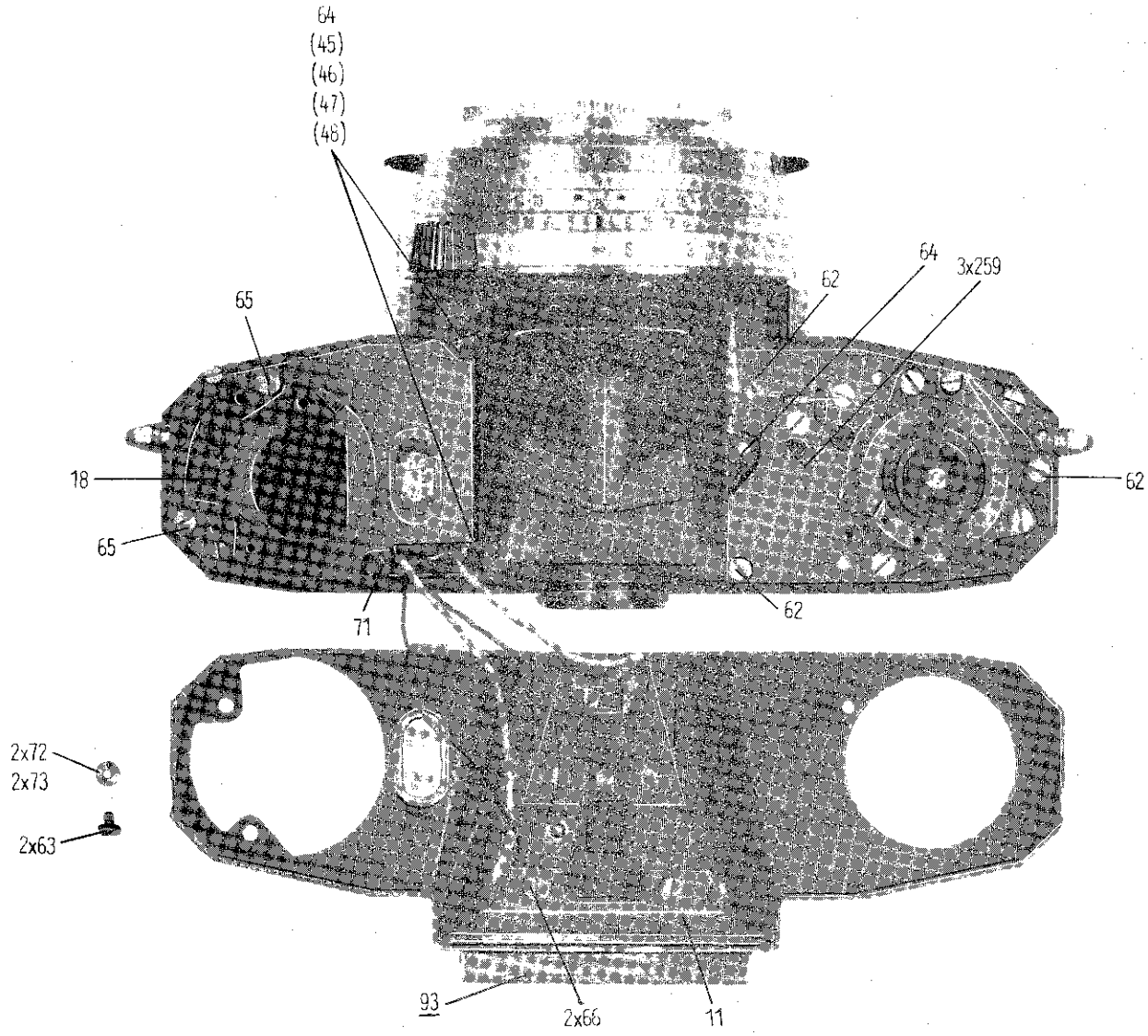




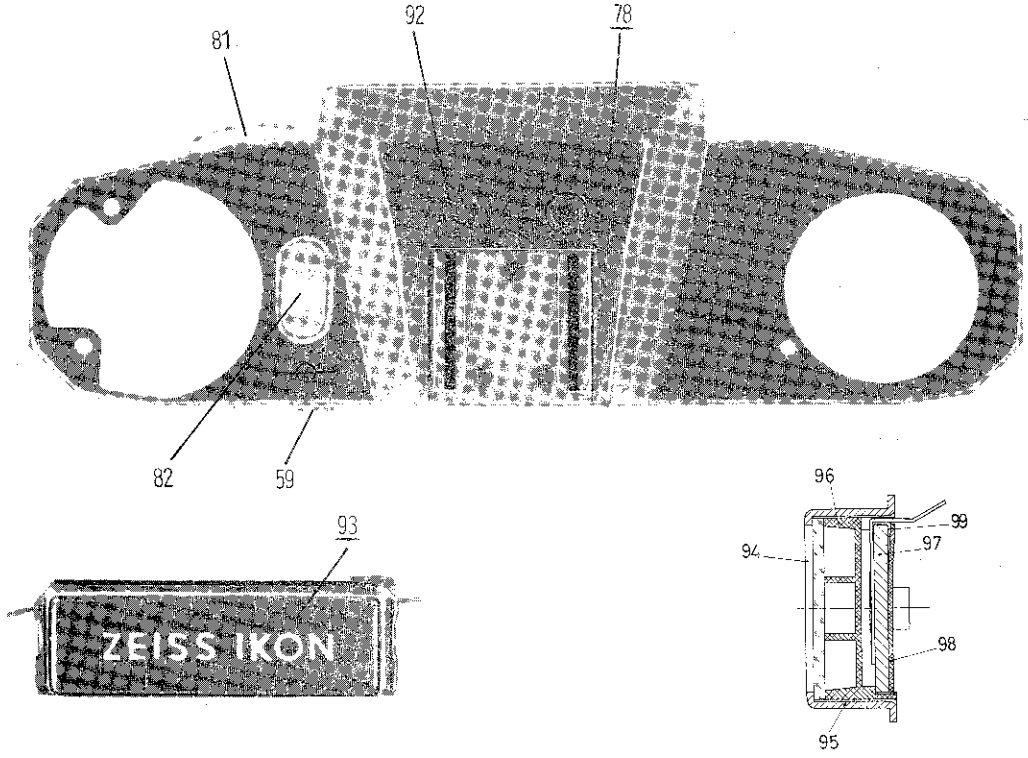
Ill.5


17
3x254
253
13
(77)
70
103
30
2x26
101 DIN
102 ASA
68
(44)
(45)
15
270
108
28
29
14
2x67
31
62
104
16
3x67
32
33
105
27
34
35
12
106
36
25
2x69

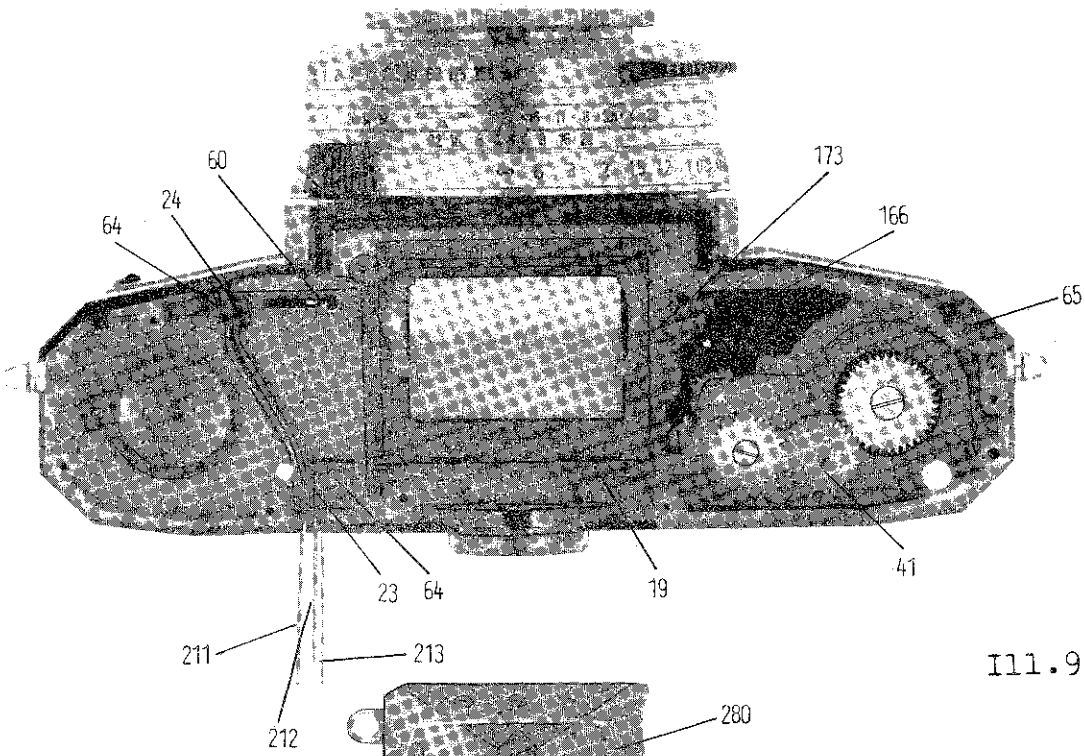
Ill.6


64
(45)
(46)
(47)
(48)
64
3x259
62
65
18
62
65
62
71
2x72
2x73
2x63
93
2x66
11

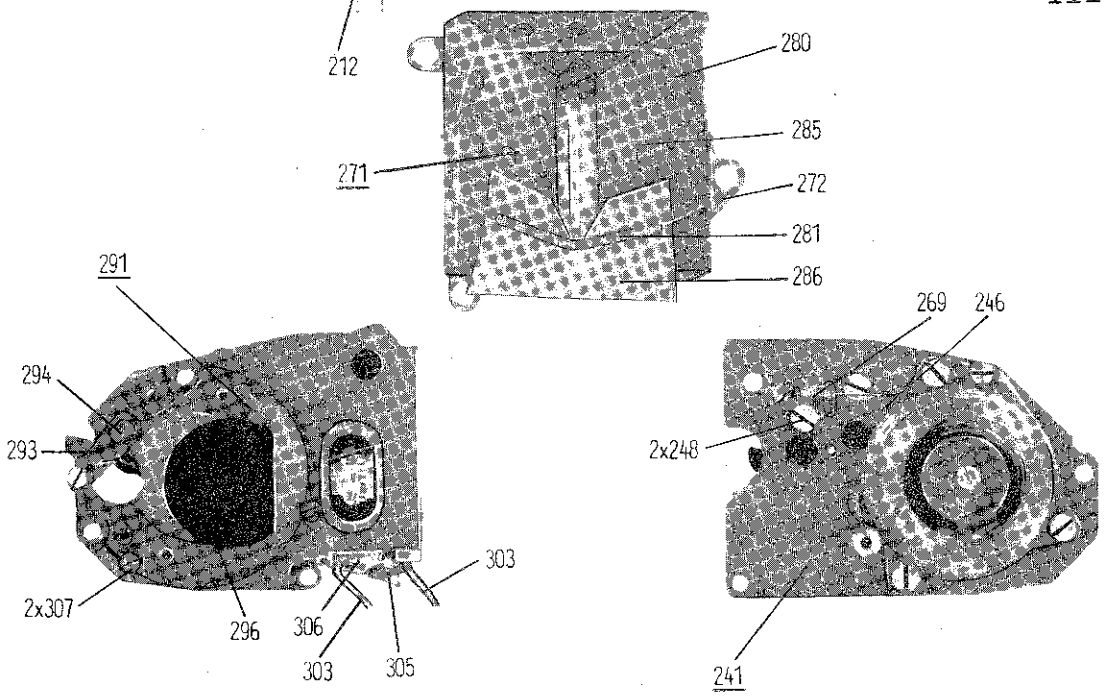
Ill.7


81
92
78
82
59
93
ZEISS IKON
96
99
97
94
98
95

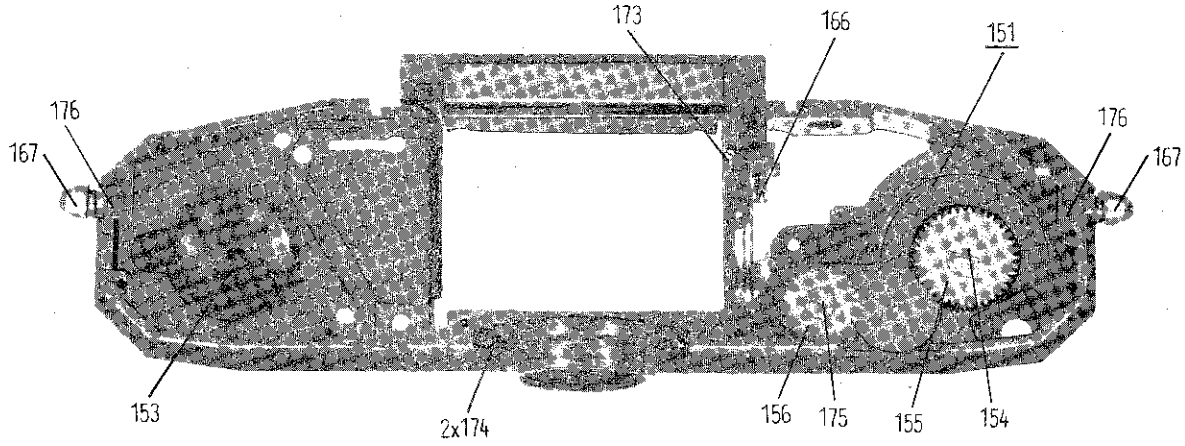
Ill.8



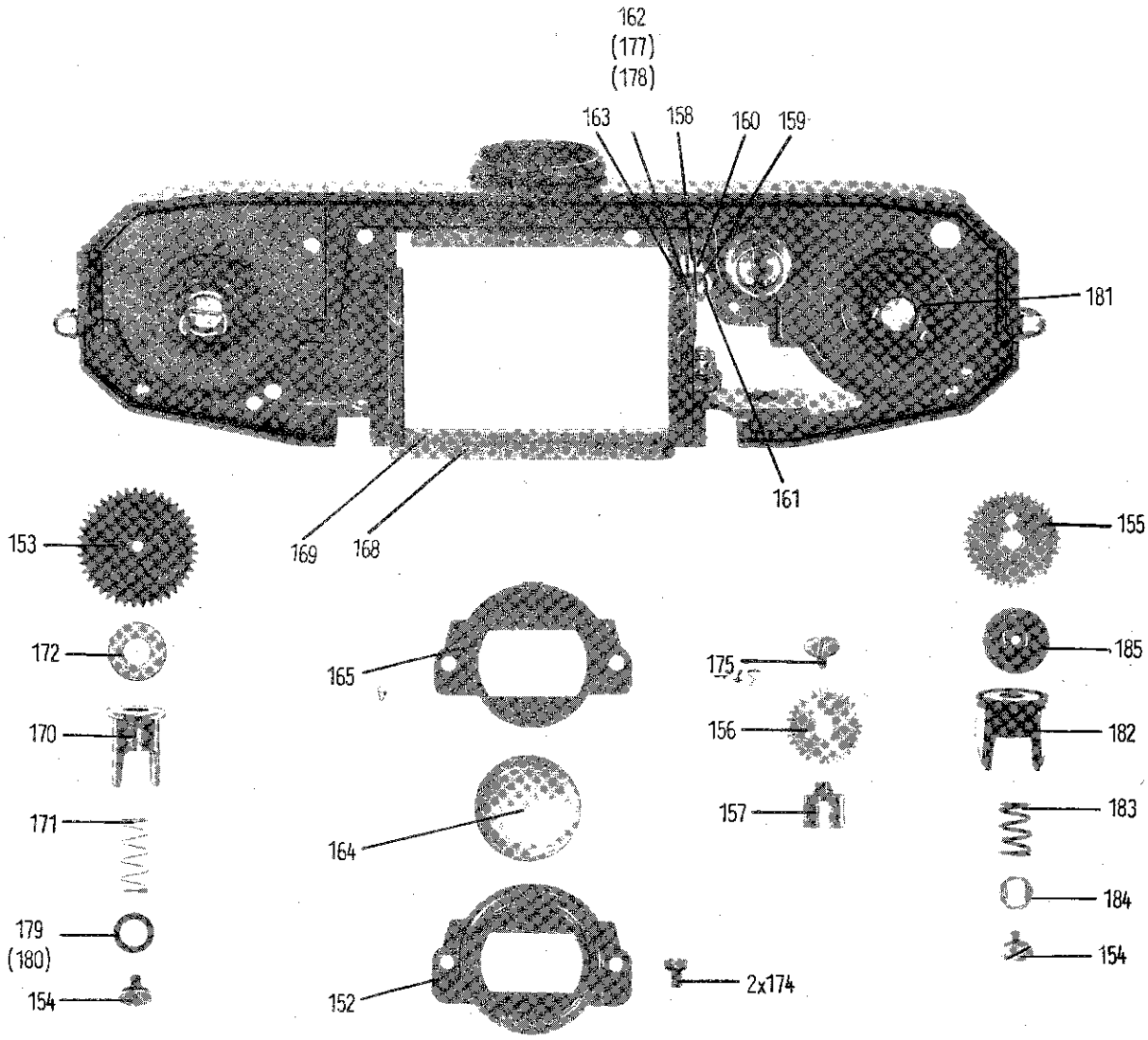
Ill.9



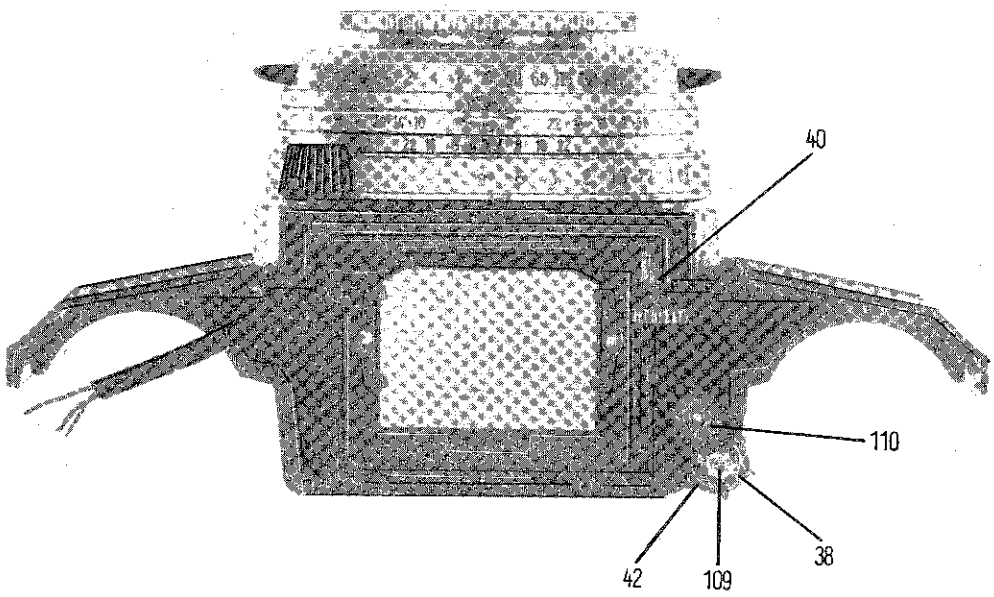
Ill.10

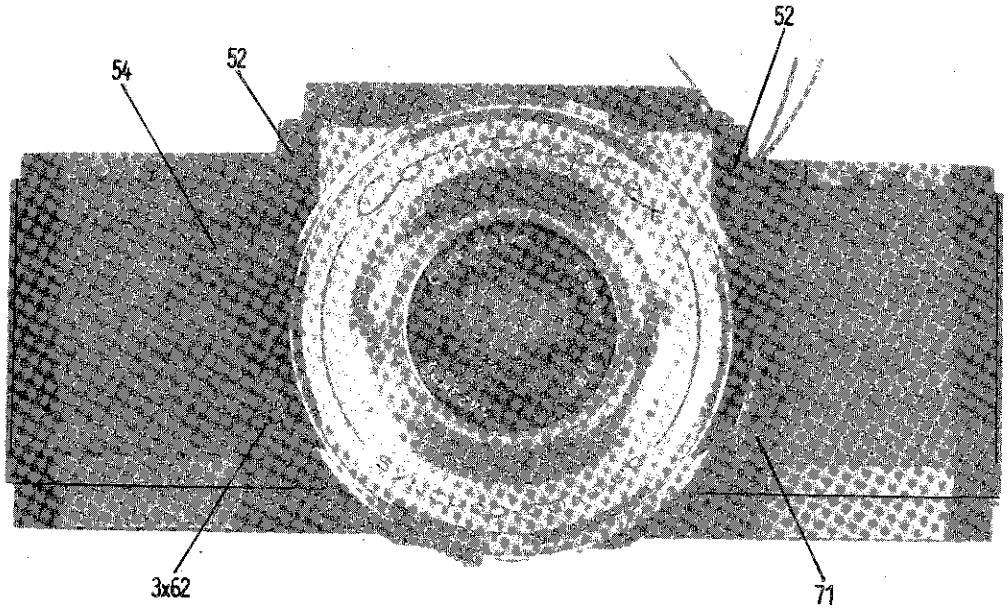


Ill.11

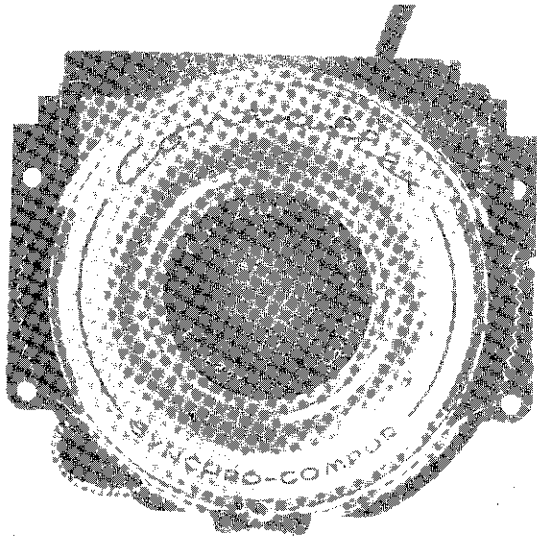

162
(177)
(178)
163
158
160
159
181
161
169
168
153
155
172
165
175
185
170
156
182
171
157
183
164
179
(180)
184
154
152
2x174
154

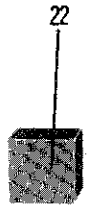
Ill.12


40
110
38
42
109

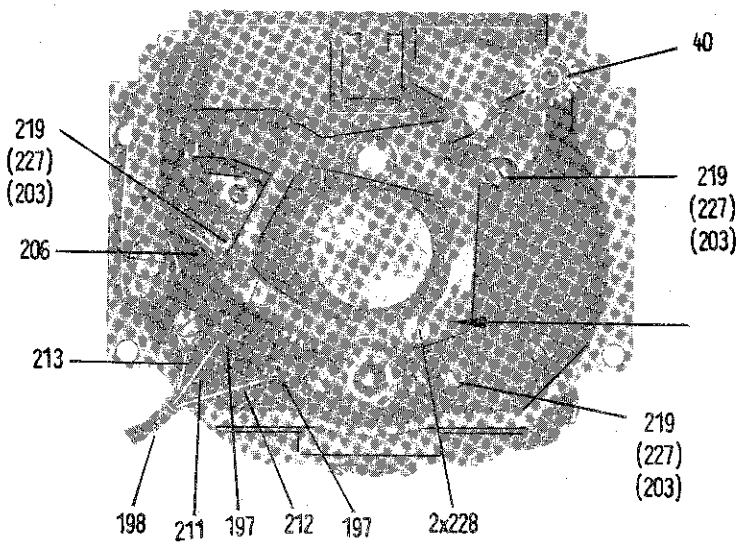


Ill.14

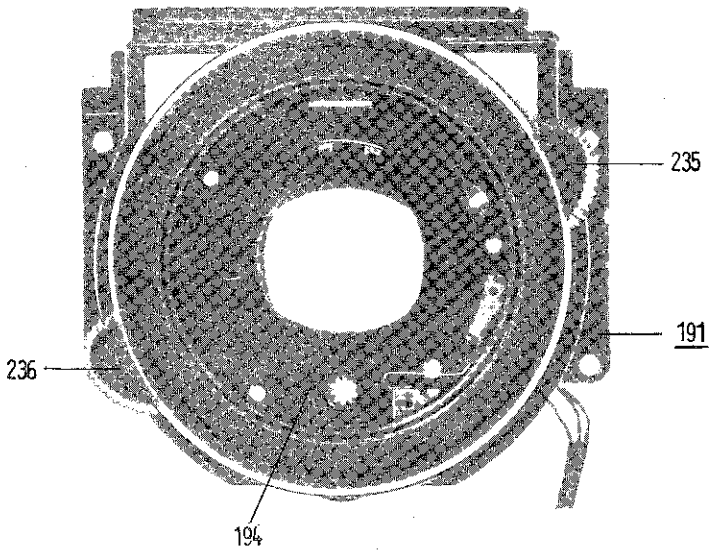




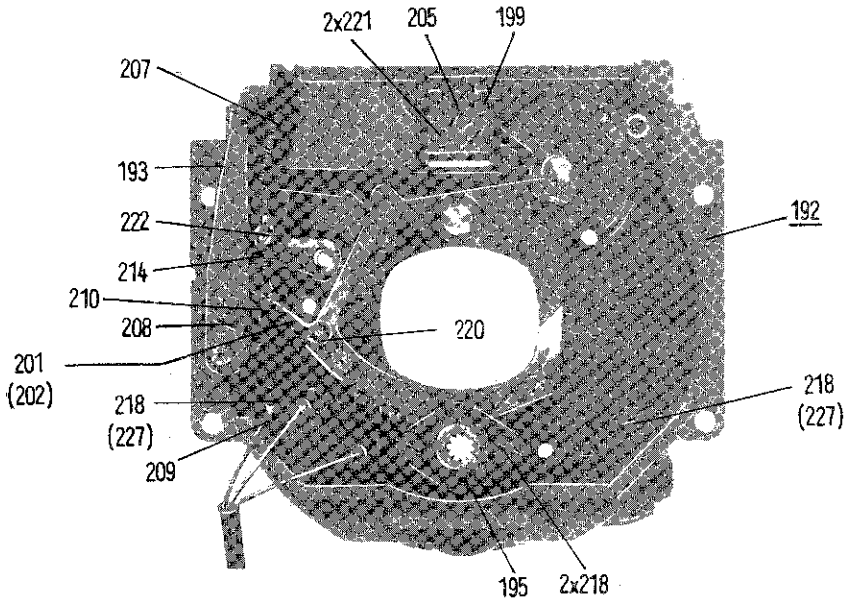
Ill.15

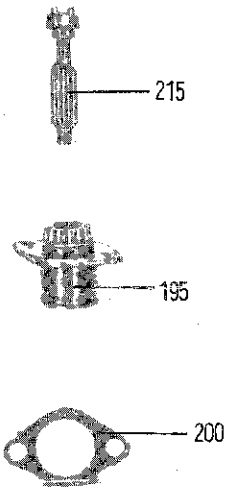


Ill.16

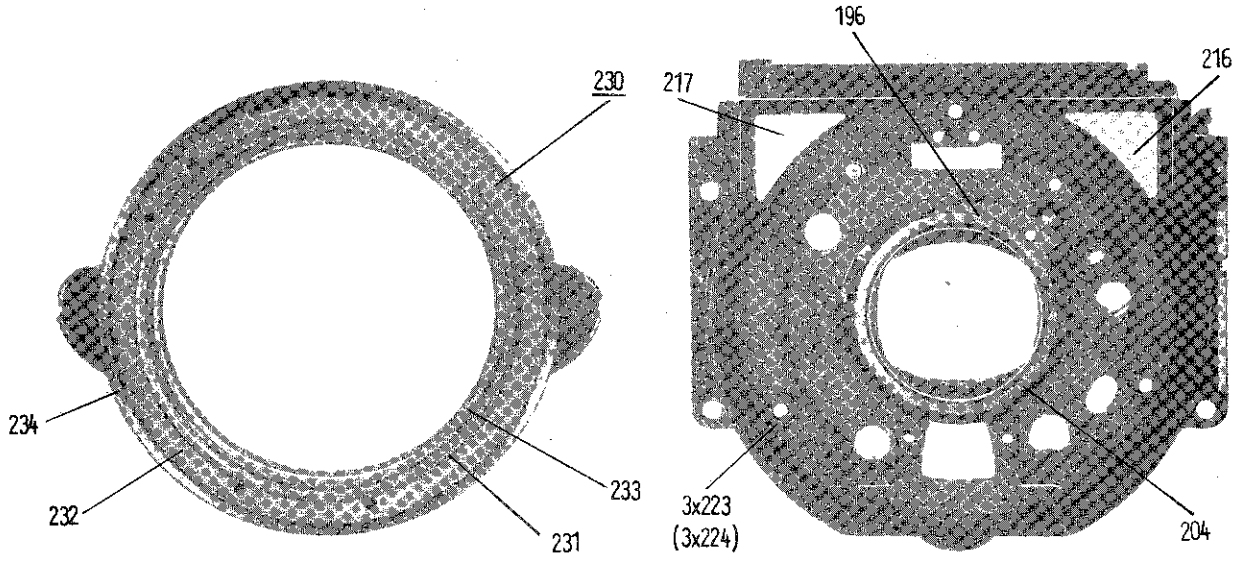


Ill.17

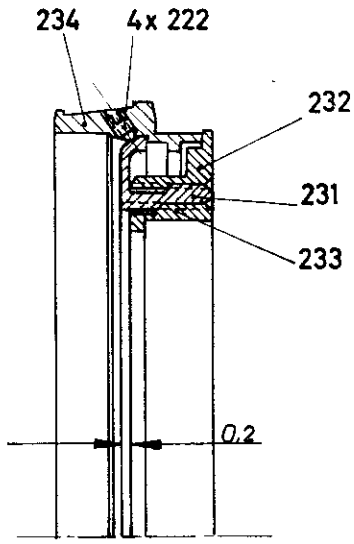




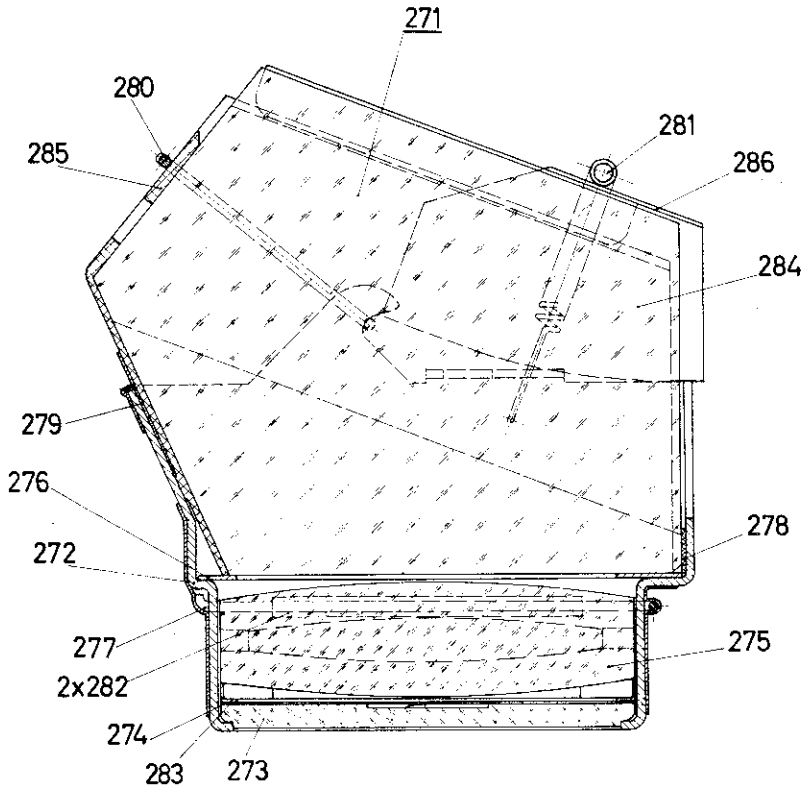
Ill.18



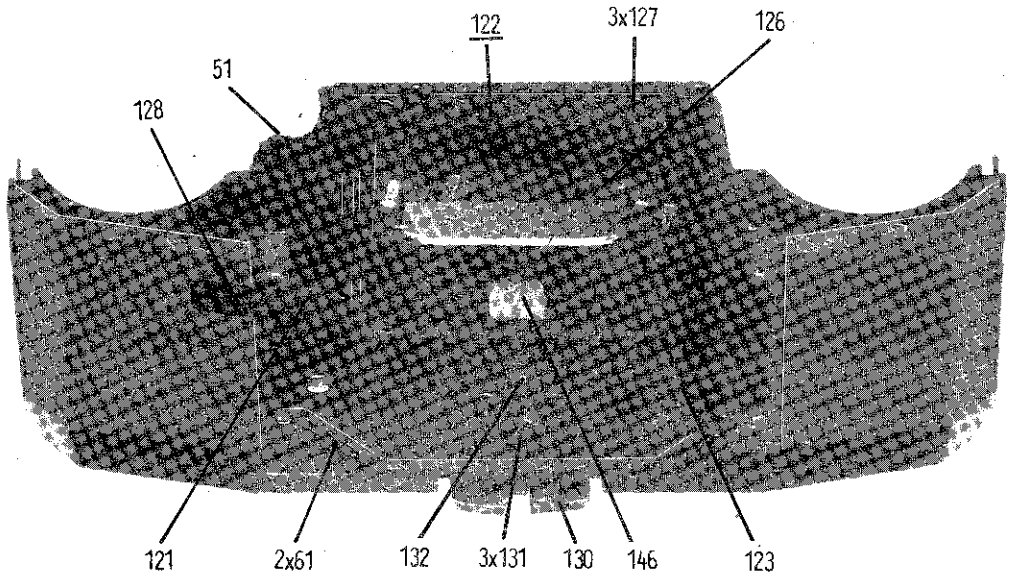
Ill.19


234
4x 222
232
231
233
0,2

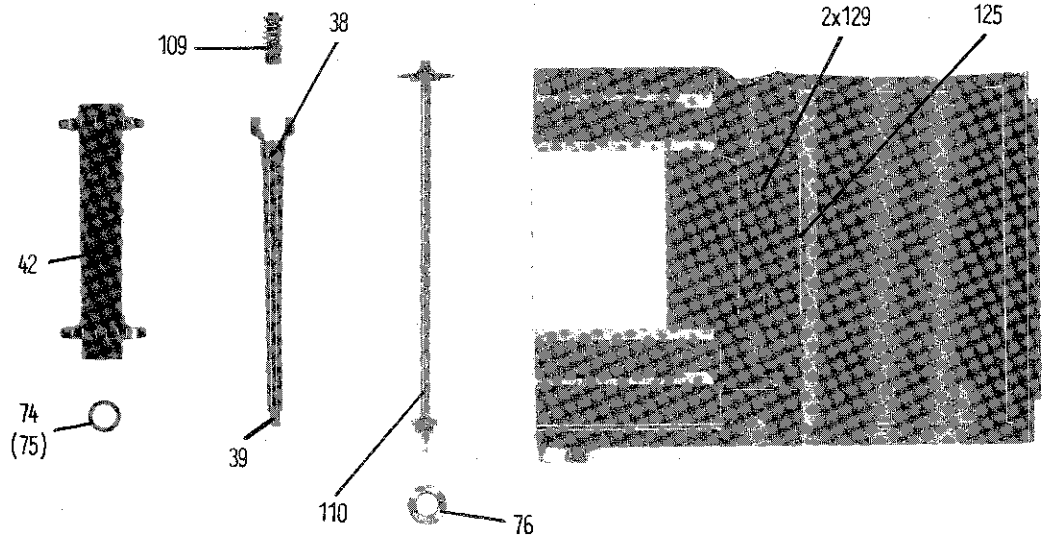
Ill. 20


271
280
285
281
286
284
279
276
272
278
277
275
2x282
274
283
273

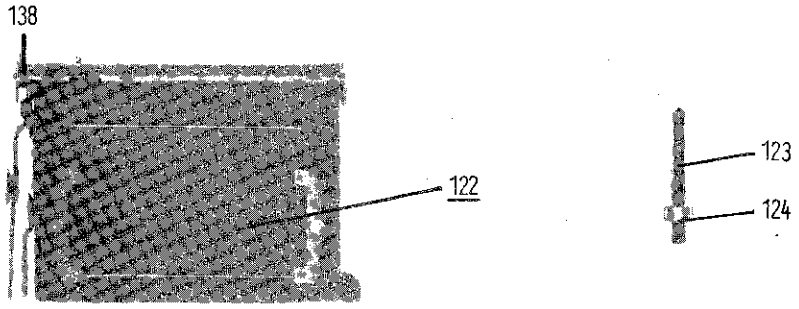
Ill. 21



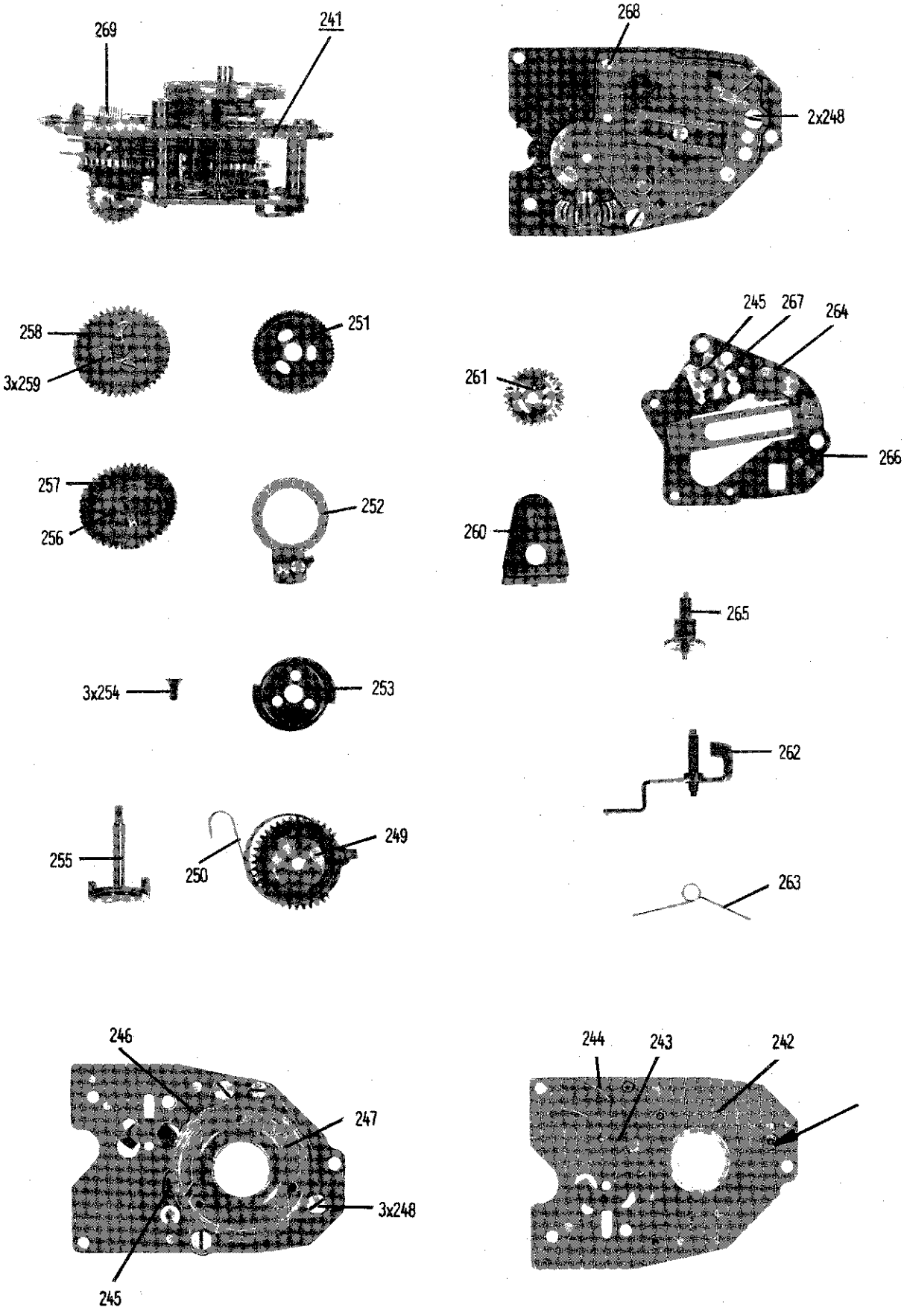
Ill.22



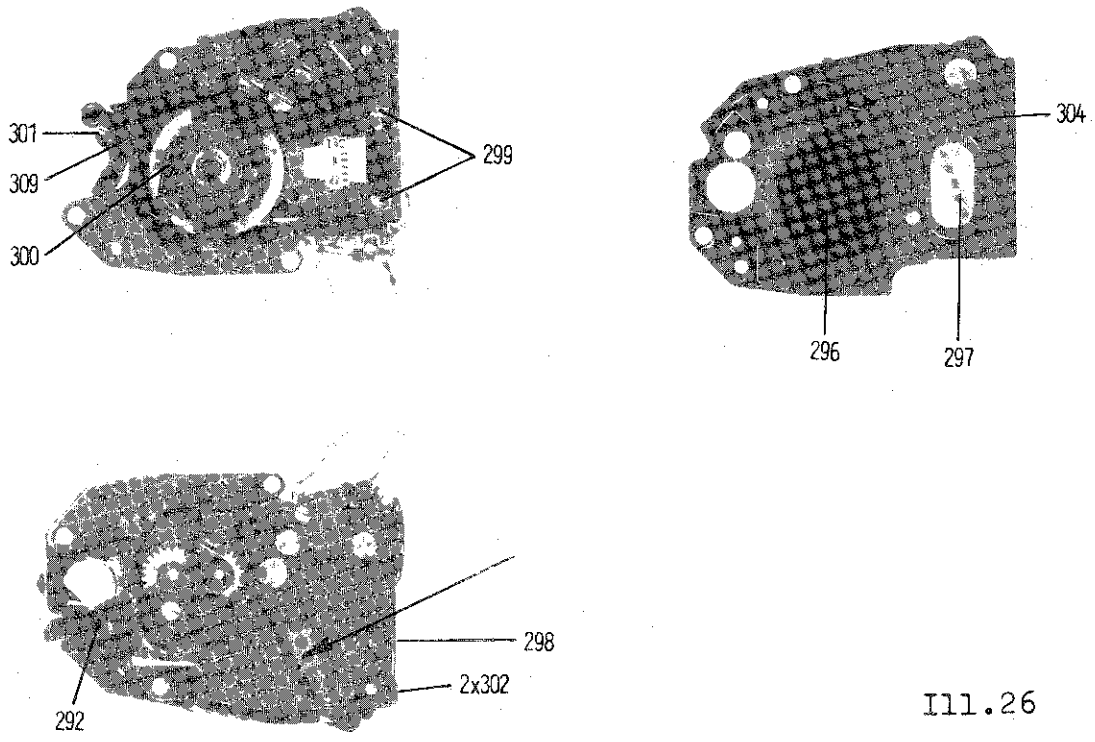
Ill.23



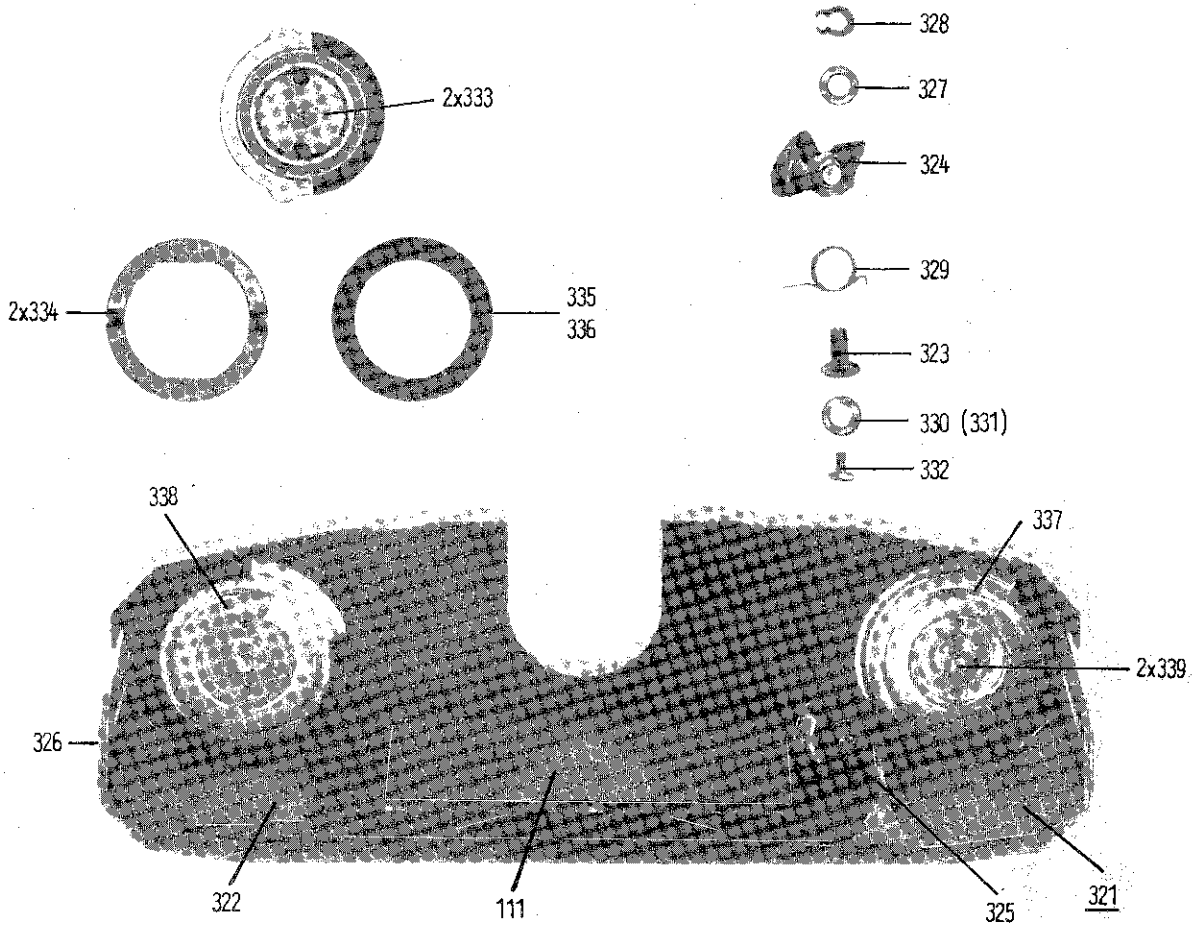
Ill.24


269
241
268
2x248
258
3x259
251
245
267
264
261
266
257
256
252
260
265
3x254
253
262
255
250
249
263
246
247
3x248
245
244
243
242

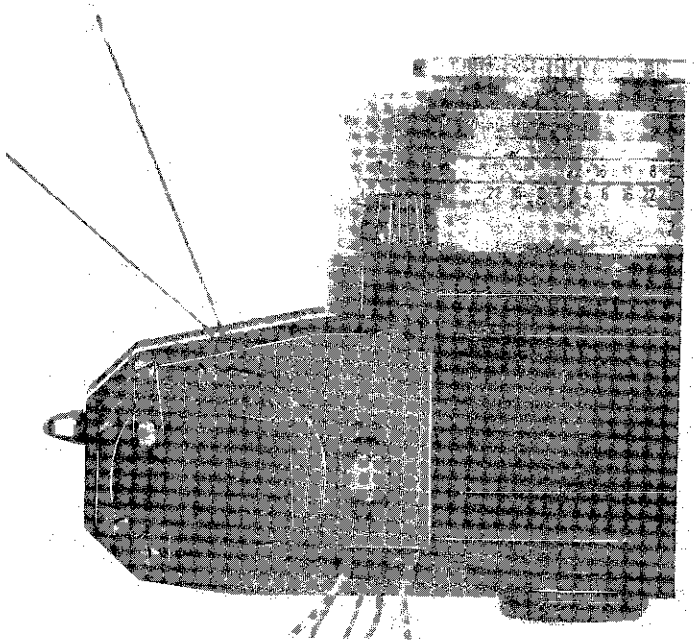
Ill.25


301
309
300
299
304
296
297
298
2x302
292

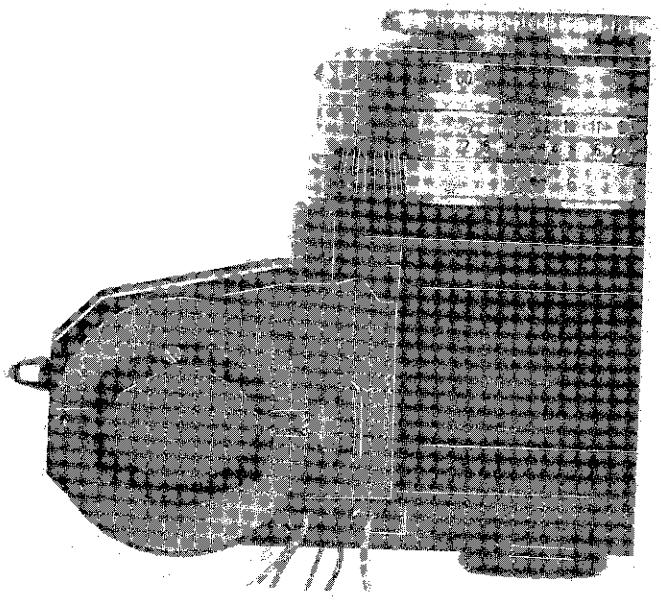
Ill.26


2x333
328
327
324
2x334
335
336
329
323
330 (331)
332
338
337
2x339
326
322
111
325
321

Ill.27



Ill.28



Ill.29

Published August 1963

ZEISS IKON

Repair Instructions

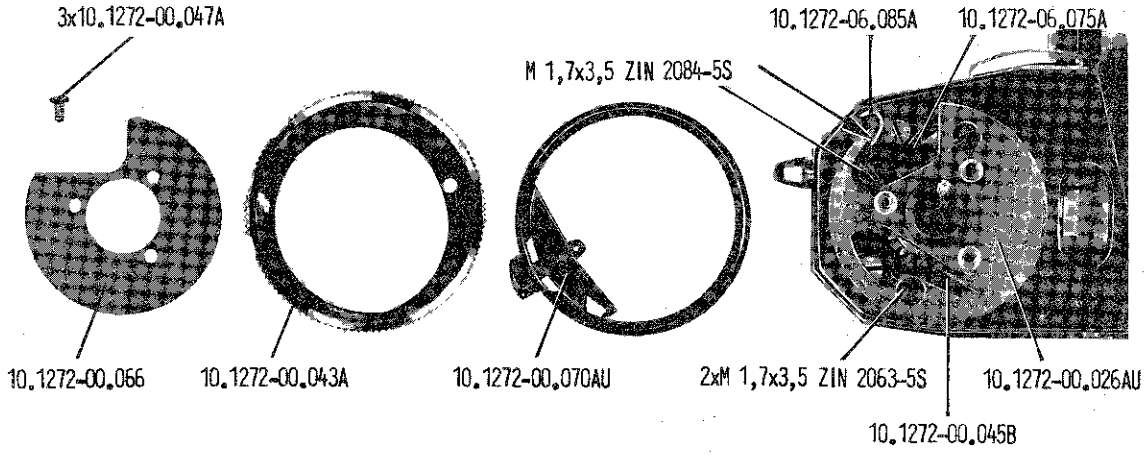
Contaflex super B, Cat. No. 10.1272

Supplement No. 1

Altering the film speed setting

New parts required

Order No.	Designation	No. of parts
10.1272-00.066	Cover plate	1
10.1272-00.047A	Screw	3
10.1272-00.043A	Ring	1
10.1272-00.070AU	DIN/ASA scale ring	1
10.1272-00.026AU	Bedplate	1
10.1272-00.045B	Spring	1
M 1,7x3,5 ZIN 2063-5S	Screw	2
10.1272-06.075A	Cover	1
10.1272-06.085A	Lever	1
M 1,7x3,5 ZIN 2084-5S	Screw	1



As a result of this alteration, the adjustment of the red exposurelimiting mask and the calibration in the lower measuring range of the exposure meter is no longer performed by means of the cam on lever 293 (see Repair Instructions, page 10, "Exposure meter calibration" and also page 11, "Checking the movement of the meter needle", para. 2), but by gently bending the scanning arm on lever 10.1272-06.085A in the appropriate direction:

Bending the arm inwards (towards screw M 1,7x3,5 ZIN 2084) = Movement of red mask is increased

Bending the arm outwards = Movement of red mask is decreased.

By bending the lever 10.1272-06.085A inwards or outwards (at the point marked by the arrow), the calibration can also be adjusted in the lower measuring range.

Earlier-model cameras can be converted; the new parts listed above will be required. The cover 10.1272-06.075A can however be re-employed since space is provided for the small lug on lever 10.1272-06.085A.

Exposure meter calibration

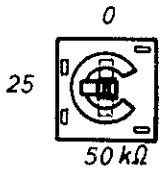
As is explained in the Repair Instructions, bottom of page 10, slight deviations in the upper measuring range can be remedied by making slight adjustments to the regulating resistor 306 (Fig. 10). To do this it is only necessary to slacken-off the cap screw 59 (Fig. 3); it is advisable to employ a piece of rubber to prevent the top capping from being damaged. It is therefore not necessary to dismantle the camera (this was not clearly emphasized in the Repair Instructions).

The deviation must not however exceed ± 1 f/stop, if the temperature compensation (the resistance-relationship between the regulating resistor and the thermistor) is not to be disturbed.

The thermistor resistance should account for 30 - 40 % of the total resistance value.

Example:

Normal resistor	= 26 kOhm
Thermistor	= 14 kOhm
Total resistance	= 40 kOhm



Regulating resistors of 50 kOhm are employed in the Contaflex super B; in the case illustrated in the above example, the resistor should be adjusted to half its full resistivity (see diagram).

The resistivity of the thermistors is indicated by three coloured dots, in accordance with the International Colour-Coding system.

Colour	1st dot	2nd dot	3rd dot
Black	0	0	
Brown	1	1	0
Red	2	2	00
Orange	3	3	000
Yellow	4	4	0000
Green	5	5	00000
Blue	6	6	
Violet	7	7	
Grey	8	8	
White	9	9	

To read off the resistance value, start from the dot nearest to the front end of the resistor.

Example:

Brown	Yellow	Orange	
1	4	000	= 14 000 Ohm = 14 kOhm

Cap screw 59 (Fig. 3)

The cap screw 59 has been provided with a slot in order to make it easier to tighten; the tip of the screwdriver employed should be rounded-off slightly to avoid damaging the cap screw. The order number, 10.1272-00.011 has not been altered.

ZEISS IKON

Published November 1964

Repair Instructions

Contaflex super B, Cat. No. 10.1272

Supplement 11

Shutter and lens carrier

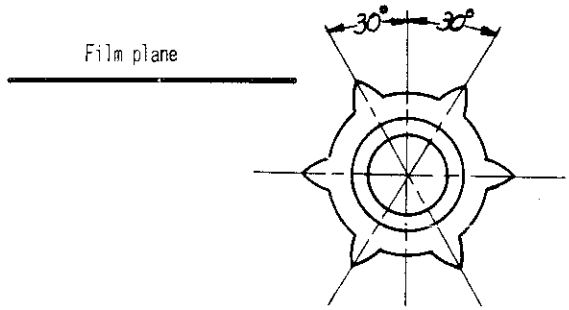
The depth of field scale (Order No. 1110 30 556 027 80 scale curve) is now screwed onto the shutter. The outside diameter of the shutter was thus somewhat increased, which in turn necessitated a slight alteration of the setting ring 234 and the scales 20 and 21.

New Order No.	Name of part	No.	Old Order No.	Old name of part	Fig.
10.1272-07.000A	Shutter 1110-556 d with lens	311	10.1272-07.000	Shutter 1110-556 with lens	5
10.1272-03.048A	Setting ring	234	10.1272-03.048	Setting ring	20
M 1,4x2,8 ZIN 2553	Grub screw	222	M 1,4x2,5 ZIN 2553	Grub screw	20
M 1,7x7 ZIN 2920	Lens head screw	237	M 1,7x6,8 ZIN 2920	Lens head screw	3
1110 30 556 027 80	Scale curve	-	-	-	-
1110 30 556 029 80	Screw (2x)	-	-	-	-
10.1272-00.048A	Scale (metres)	20	10.1272-00.048	Scale (metres)	2
10.1272-00.049A	Scale (feet)	21	10.1272-00.049	Scale (feet)	2

The new shutter 1110-556 d can only be installed in cameras of the previous series, even if the setting ring 234 (10.1272-03.048) is replaced by the new setting ring 10.1272-03.048A.

Position of the film drum

The tooth position of the film drum 42 (fig. 3) was altered as follows:
When the shutter is open, the angle of one tooth pair to the normal of the film plane is 30^0. Tolerance $\pm 7^0$. (See diagram).



The gauge 872/24 M/71 was altered in accordance with the degree figure. The old degree indication on the gauges existing already in the workshops should be altered to 30^0. Item 15 of the test instructions should be modified appropriately.
The position of the film drum in the Contarex was also changed to 30^0.

Synchronization

From camera No. F 15 501 the Contaflex super B is equipped with X synchronization only; this can be recognized by the engraving "Synchro-Compur-X" on the terminal ring 312 and on the setting lever for V and X (delayed action release and sychronization).

Film drum 42 (fig. 3)

The film drum 42 is no longer supported at its lower end by the axle 38, but runs on a bearing bushing riveted into the cast iron housing. Whenever a film drum must be exchanged, make sure what design is involved. The Order No. of the new film drum is 10.1272-00.030.

Exposure meter 291 (fig. 10)

The Order No. of the exposure meter for the design described in Supplement 1 is: 10.1272-06.000A Exposure meter compl.

Zeiss Ikon AG
Stuttgart

Zeiss Ikon AG
Stuttgart

Ausgabe Februar 1963
Published February 1963
Edición Febrero 1963

Ersatzteilliste

List of Spare Parts

Lista de piezas de recambio

Contaflex super B, Kat.-Nr. 10.1272

Für eine schnelle und sachgemäße Bearbeitung eines Ersatzteilauftrages benötigt unser Ersatzteillager alle Angaben aus dem starkumrandeten Teil der Ersatzteilliste. (Bestellnummer und Bezeichnung).

To ensure quick and proper execution of your spare part order our Spare Part Department requires all information given in the strongly outlined column of the List of Spare Parts. (Order No. and name of part).

A fin de poder ejecutar de modo rápido y correcto los encargos, nuestra sección de piezas de recambio ruega sirvase citar, en el pedido, todos los datos de la parte fuertemente perfilada en la lista de piezas de recambio. (Número de pedido y designación).

Lfd.Nr. No. Nos.cont.	Bestellnummer Order No. Número de pedido	Bezeichnung Name of part Designación	Ill. Ill. Illustr.	Baugruppe Assembly-group Grupo de montaje	Stück Piece Pieza
11	10.1272-00.021	Halteblech Holding plate Placa sujetadora	7	Deckkappe Top capping Tapa	1
12	10.1272-00.040	Ring Ring Anillo	2,6	Camera kompl. Camera compl. Cámara compl.	1
13	10.1272-00.041	Zahnrad Cogwheel Rueda dentada	6	Camera kompl. Camera compl. Cámara compl.	1
14	10.1272-00.042A	Feder Spring Muelle	6	Camera kompl. Camera compl. Cámara compl.	1
15	10.1272-00.043	Ring Ring Anillo	1,6	Camera kompl. Camera compl. Cámara compl.	1
16	10.1272-00.044	Mutter Nut Tuerca	6	Camera kompl. Camera compl. Cámara compl.	1
17	10.1272-00.045A	Feder Spring Muelle	6	Camera kompl. Camera compl. Cámara compl.	1
18	10.1272-00.046	Achse Axle Eje	7	Camera kompl. Camera compl. Cámara compl.	1

Lfd. Nr. No. Nos.cont.	Bestellnummer Order No. Número de pedido	Bezeichnung Name of part Designación	Ill. Ill. Ilustr.	Baugruppe Assembly-group Grupo de montaje *	Stück Piece Pieza
19	10.1272-00.047	Schraube Screw Tornillo	9	Camera kompl. Camera compl. Cámara compl.	1
20	10.1272-00.048	Skala (meter) Scale (metre) Escala (metros)	2	Camera kompl. Camera compl. Cámara compl.	1
21	10.1272-00.049	Skala (feet) Scale (feet) Escala (feet)	2	Camera kompl. Camera compl. Cámara compl.	1
22	10.1272-00.050	Stopfen Plug Tapón	15	Camera kompl. Camera compl. Cámara compl.	1
23	10.1272-00.051	Halteblech Holding plate Placa sujetadora	9	Camera kompl. Camera compl. Cámara compl.	1
24	10.1272-00.052	Halteblech Holding plate Placa sujetadora	9	Camera kompl. Camera compl. Cámara compl.	1
25	10.1272-00.053	Mutter Nut Tuerca	2,6	Camera kompl. Camera compl. Cámara compl.	1
26	10.1272-00.058	Ansatzschraube Shoulder screw Tornillo con resalte	6	Camera kompl. Camera compl. Cámara compl.	2
27	10 1281 00.025 (41 134)	Federscheibe Spring plate Disco resorte	6	Camera kompl. Camera compl. Cámara compl.	1
28	10.1281-00.042 (23 833)	Druckfeder Pressure spring Muelle de presion	6	Camera kompl. Camera compl. Cámara compl.	1
29	10.1281-00.043 (14 089)	Auslösenippel Release nipple Niple de disparo	2,6	Camera kompl. Camera compl. Cámara compl.	1
30	10.1281-00.044 (15 574)	Gewindebuchse Threaded bush Casquillo roscado	6	Camera kompl. Camera compl. Cámara compl.	1
31	10.1281-00.050 (33 341)	Lagerflansch Bearing flange Biela de soporte	6	Camera kompl. Camera compl. Cámara compl.	1
32	10.1281-00.051 (22 708)	Blattfeder Leaf spring Muelle de láminas	6	Camera kompl. Camera compl. Cámara compl.	1
33	10.1281-00.052 (22 709)	Schaltfeder Control spring Muelle de avance	6	Camera kompl. Camera compl. Cámara compl.	1
34	10.1272-00.059	Schaltring Control ring Anillo de avance	2,6	Camera kompl. Camera compl. Cámara compl.	1
35	10.1281-00.054 (14 090)	Gewindenippel Threaded nipple Niple roscado	6	Camera kompl. Camera compl. Cámara compl.	1

Lfd. Nr. No. Nos.cont.	Bestellnummer Order No. Número de pedido	Bezeichnung Name of part Designación	Ill Ill Ilustr.	Baugruppe Assembly-group Grupo de montaje	Stück Piece Pieza
36	10.2400-00.074 (75 629)	Zählscheibe Counter disc Disco contador	2;6	Camera kompl. Camera compl. Cámara compl.	1
37	10.1281-00.068 (Ss 213)	Abschlußschraube Cover screw Tornillo de cierre	3	Camera kompl. Camera compl. Cámara compl.	1
38	10.1281-00.[illegible] (65 491)	Achse Axle Eje	13.23	Camera kompl. Camera compl. Cámara compl.	1
39	10.1281-00.084 (Ss 546)	Schaftschraube Shoulder screw Tornillo de cuerpo	3.23	Camera kompl. Camera compl. Cámara compl.	1
40	10.1271-00.001 (45 423)	Stirnrad Spur wheel Rueda recta	13.16	Objektivträger Lens carrier Portaobjetivo	1
41	10.1271-00.033 (45 751)	Zahnrad Cogwheel Rueda dentada	9	Camera kompl. Camera compl. Cámara compl.	1
42	10.2400-00.002 (33 389)	Filmtrommel Film drum Tambor de película	3.13.23	Camera kompl. Camera compl. Cámara compl.	1
44	10.1281-00.038 (39 289)	Scheibe Washer Arandela	6	Camera kompl. Camera compl. Cámara compl.	1
45	20.1506-00.018 (39 288)	Scheibe Washer Arandela	6.7	Camera kompl. Camera compl. Cámara compl.	4
46	10.1281-00.026 (39 067)	Scheibe Washer Arandela	7	Camera kompl. Camera compl. Cámara compl.	3
47	10.1281-00.027 (39 077)	Scheibe Washer Arandela	7	Camera kompl. Camera compl. Cámara compl.	3
48	10.1281-00.028 (39 220)	Scheibe Washer Arandela	7	Camera kompl. Camera compl. Cámara compl.	3
50	10.1281-01.020A (Ss 209a)	Zylinderschraube Cylinder screw Tornillo cilíndrico	3	Camera kompl. Camera compl. Cámara compl.	1
51	10.1281-00.102 (120 062)	Dichtungsfaden Packing cord Hilo de empaquetadura	22	Gehäuse Housing Caja	1
52	10.1281-00.029 (108 259)	Dichtungseinlage Sealing insert Suplemento empaquetadura	14	Camera kompl. Camera compl. Cámara compl.	2
53	10.1281-00.062 (108 267)	Scheibe Washer Arandela	4	Camera kompl. Camera compl. Cámara compl.	1

Lfd. Nr. No. Nos.cont.	Bestellnummer Order No. Número de pedido	Bezeichnung Name of part Designación	Ill. Ill. Illustr.	Baugruppe Assembly-group Grupo de montaje	Stück Piece Pieza
54	10.1281-00.063 (103 537)	Füllstück Filler Pieza de relleno	14	Camera kompl. Camera compl. Cámara compl.	1
55	10.1261-00.013 (109 187/2)	Bezug für Gehäuse Covering for housing Revestimiento para caja	1	Camera kompl. Camera compl. Cámara compl.	1
56	10.1261-00.014 (113 844)	Papierunterlage Paper support Papel de fondo	1	Camera kompl. Camera compl. Cámara compl.	1
57	10.1261-00.015 (109 187/3)	Bezug für Gehäuse Covering for housing Revestimiento para caja	1	Camera kompl. Camera compl. Cámara compl.	1
58	10.1261-00.016 (113 844/1)	Papierunterlage Paper support Papel de fondo	1	Camera kompl. Camera compl. Cámara compl.	1
59	10.1272-00.011	Abschlußschraube Cover screw Tornillo de cierre	3,8	Camera kompl. Camera compl. Cámara compl.	1
60	10.1272-00.013	Taststift Scanning lever Clavija de contacto	9	Camera kompl. Camera compl. Cámara compl.	1
61	10.1272-00.020	Dichtungsfaden Packing cord Hilo de empaquetadura	22	Gehäuse Housing Caja	2
62	M 1,7x3 ZIN 2084	Zylinderschraube Cylinder screw Tornillo cilíndrico	6,7,14	Camera kompl. Camera compl. Cámara compl.	7
63	M 1,7x3 ZIN 2084	Zylinderschraube (verschromt) Cylinder screw (chromium-plated) Tornillo cilíndrico (cromado)	7	Camera kompl. Camera compl. Cámara compl.	2
64	M 1,7x3,5 ZIN 2084	Zylinderschraube Cylinder screw Tornillo cilíndrico	7,9	Camera kompl. Camera compl. Cámara compl.	5
65	M 1,7x7,5 ZIN 2084	Zylinderschraube Cylinder screw Tornillo cilíndrico	7,9	Camera kompl. Camera compl. Cámara compl.	3
66	M 2x3 ZIN 2084	Zylinderschraube Cylinder screw Tornillo cilíndrico	7	Deckkappe Top capping Tapa	2
67	M 1,7x3 ZIN 2515	Zylinderschraube Cylinder screw Tornillo cilíndrico	6	Camera kompl. Camera compl. Cámara compl.	6
68	M 1,7x3 ZIN 2511	Senkschraube Countersunk screw Tornillo embutido	6	Camera kompl. Camera compl. Cámara compl.	1
69	M 1,4x2 ZIN 2513	Linsensenkschraube Oval head countersunk screw Tornillo de cabeza lenticular	2,6	Camera kompl. Camera compl. Cámara compl.	2

Lfd. Nr. No. Nos.cont.	Bestellnummer Order No. Número de pedido	Bezeichnung Name of part Designación	Abb. Illustr. Ilustr.	Baugruppe Assembly-group Grupo de montaje	Stück Piece Pieza
70	M 1,7x2,5 ZIN 2551	Gewindestift Grubscrew Perno roscado	6	Camera kompl. Camera compl. Cámara compl.	1
71	M 1,7x6 ZIN 2084	Zylinderschraube Cylinder screw Tornillo cilíndrico	7,14	Camera kompl. Camera compl. Cámara compl.	2
72	2x5x0,2 ZIN 2351	Scheibe Washer Arandela	7	Camera kompl. Camera compl. Cámara compl.	(2)
73	2x5x0,4 ZIN 2351	Scheibe Washer Arandela	7	Camera kompl. Camera compl. Cámara compl.	(2)
74	3x4,5x0,05 ZIN 2351	Scheibe Washer Arandela	23	Camera kompl. Camera compl. Cámara compl.	(1)
75	3x4,5x0,1 ZIN 2351	Scheibe Washer Arandela	23	Camera kompl. Camera compl. Cámara compl.	(1)
76	3,5x5,5x0,2 ZIN 2351	Scheibe Washer Arandela	23	Camera kompl. Camera compl. Cámara compl.	(1)
77	9,5x13,5x0,03 ZIN 2351	Scheibe Washer Arandela	6	Camera kompl. Camera compl. Cámara compl.	(1)
78	10.1272-00.001-U	Deckkappe mont. Top capping ass. Tapa mont.	2,8	Camera kompl. Camera compl. Cámara compl.	1
81	10.1272-00.005	Fenster Window Ventanilla	8	Deckkappe Top capping Tapa	1
82	10.1272-00.006	Linse Lens Lente	8	Deckkappe Top capping Tapa	1
92	10.0631-02.008-U	Kontaktnippel Contact nipple Niple de contacto	8	Deckkappe Top capping Tapa	1
93	10.1272-00.015-U	Rahmen mont. Frame ass. Marco mont.	7,8	Deckkappe Top capping Tapa	1
94	10.1272-00.016-U	Deckscheibe Cover disc Disco de recubrimiento	8	Rahmen mont. Frame ass. Marco mont.	1
95	10.1272-00.017	Rahmen Frame Marco	8	Rahmen mont. Frame ass. Marco mont.	1
96	10.1272-00.018	Gitterblende Baffle Diafragma de rejilla	8	Rahmen mont. Frame ass. Marco mont.	1

Lfd.Nr. No. Nos.cont.	Bestellnummer Order No. Número de pedido	Bezeichnung Name of part Designación	Ill. Ill. Ilustr.	Baugruppe Assembly-group Grupo de montaje	Stück Piece Pieza
97	10.0651-03.065	Fotoelement Photo cell Fotoelemento	8	Rahmen mont. Frame ass. Marco mont.	1
98	10.0651-03.002	Platte Plate Placa	8	Rahmen mont. Frame ass. Marco mont.	1
99	10.1281-07.007 (105 016)	Klebstreifen Tape Cinta adhesiva	8	Rahmen mont. Frame ass. Marco mont.	2
101	10.1272-00.070-U	Ring (DIN) Ring (DIN) Anillo (DIN)	1,6	Camera kompl. Camera compl. Cámara compl.	1
102	10.1272-00.025-U	Ring (ASA) Ring (ASA) Anillo (ASA)	1,6	Camera kompl. Camera compl. Cámara compl.	1
103	10.1272-00.026-U	Platine Bed plate Platina	6	Camera kompl. Camera compl. Cámara compl.	1
104	10.1272-00.027-U	Nabe Hub Cubo	6	Camera kompl. Camera compl. Cámara compl.	1
105	10.1272-00.028-U	Skala Scale Escala	2,6	Camera kompl. Camera compl. Cámara compl.	1
106	10.1281-08.015-U (85 644 T)	Hebel Lever Palanca	2,6	Camera kompl. Camera compl. Cámara compl.	1
107	10.1281-00.104 (109 189)	Abdeckscheibe Cover plate Disco de cubierta	2	Camera kompl. Camera compl. Cámara compl.	1
108	10.1281-00.045-U (85 608 T)	Spannhebel Tensioning lever Palanca tensora	2,6	Camera kompl. Camera compl. Cámara compl.	1
109	10.1281-00.011-U (66 288 Tm)	Bolzen Bolt Perno	13,23	Camera kompl. Camera compl. Cámara compl.	1
110	10.1281-00.001-U (65 449 Tm)	Achse mit Stirnrad Spindle with spur wheel Eje con rueda dentada recta	3,13,23	Camera kompl. Camera compl. Cámara compl.	1
111	10.1281-00.057-U (26 402 T)	Andrückplatte Pressure plate Placa de presión	27	Rückwand Back panel Tapa trasera	1
121	10.1281-01.014-U (29 345 Tm)	Winkel Angle Escuadra	22	Gehäuse Housing Caja	1
122	10.1272-01.001-U	Lagerblech vollst. Bearing plate compl. Chapa soporte compl.	22,24	Gehäuse Housing Caja	1

Lfd. Nr. No. Nos.cont.	Bestellnummer Order No. Número de pedido	Bezeichnung Name of part Designación	Ill. Ill. Illustr.	Baugruppe Assembly-group Grupo de montaje	Stück Piece Pieza
123	10.1272-01.002	Gewindestift mit Zapfen Grupscrew with lug Perno roscado con espiga	22,24	Gehäuse Housing Caja	1
124	10.1281-01.013 (60 189)	Schlitzmutter Slotted nut Tuerca ranurada	24	Gehäuse Housing Caja	1
125	10.1281-01.011 (34 728)	Filmleitblech Film guide plate Chapa guia de pelicula	23	Gehäuse Housing Caja	1
126	10.1291-02.009 (98 125)	Spiegel Mirror Espejo	22	Gehäuse Housing Caja	1
127	M 1,7x2,2 ZIN 2084	Zylinderschraube Cylinder screw Tornillo cilíndrico	22	Gehäuse Housing Caja	3
128	M 1,7x3,5 ZIN 2084	Zylinderschraube Cylinder screw Tornillo cilíndrico	22	Gehäuse Housing Caja	1
129	M 1,7x3 ZIN 2511	Senkschraube Countersunk screw Tornillo embutido	23	Gehäuse Housing Caja	2
130	10.1272-01.003	Stativmutter Tripod bush Tuerca para trípode	4,22	Gehäuse Housing Caja	1
131	M 2,3x5 DIN 84	Zylinderschraube Cylinder screw Tornillo cilíndrico	22	Gehäuse Housing Caja	3
132	1,5x5 DIN 1472	Paßkerbstift Slotted set pin Clavija hendida de ajuste	22	Gehäuse Housing Caja	1
138	10.1281-02.006 (23 822)	Feder Spring Muelle	24	Lagerblech Bearing plate Chapa soporte	1
146	10.1281-02.013 (112 370)	Puffer Buffer Tope	22	Lagerblech Bearing plate Chapa soporte	1
151	10.1272-02.000	Getriebegehäuse mont. Gear housing ass. Caja mecanismo mont.	11	Camera kompl. Camera compl. Cámara compl.	1
152	10.1272-02.006-U	Einblickfassung Eyepiece mount Montura de la mirilla	3,12	Getriebegehäuse Gear housing Caja mecanismo	1
153	10.1272-02.003	Zahnrad Cogwheel Rueda dentada	11,12	Getriebegehäuse Gear housing Caja mecanismo	1
154	10.1281-03.024 (64)	Zylinderschraube Cylinder screw Tornillo cilíndrico	3,11,12	Getriebegehäuse Gear housing Caja mecanismo	3

Lfd.Nr. No. Nos.cont.	Bestellnummer Order No. Número de pedido	Bezeichnung Name of part Designación	Bild Fig. Ilustr.	Baugruppe Assembly-group Grupo de montaje	Stück Piece Pieza
155	10.1281-03.032 (45 335)	Stirnrad Spur wheel Rueda recta	11,12	Getriebegehäuse Gear housing Caja mecanismo	1
156	10.1281-03.016 (45 334)	Zahnrad Cogwheel Rueda dentada	11,12	Getriebegehäuse Gear housing Caja mecanismo	1
157	10.1281-03.015 (33 339)	Mitnehmer Catch Arrastrador	12	Getriebegehäuse Gear housing Caja mecanismo	1
158	10.1281-03.011 (85 596)	Tasthebel (Spiegelklappe) Scanning lever (Mirror flap) Palanca (tapa espejo)	12	Getriebegehäuse Gear housing Caja mecanismo	1
159	10.1281-03.013A (85 597a)	Tasthebel (Lichtklappe) Scanning lever (Capping plate) Palanca (tapa de luz)	12	Getriebegehäuse Gear housing Caja mecanismo	1
160	10.1281-03.012 (15 464)	Buchse Bush Casquillo	12	Getriebegehäuse Gear housing Caja mecanismo	1
161	10.1281-03.045 (60 219)	Mutter Nut Tuerca	12	Getriebegehäuse Gear housing Caja mecanismo	1
162	10.1281-03.010 (39 423)	Scheibe Washer Arandela	12	Getriebegehäuse Gear housing Caja mecanismo	(1)
163	10.1281-03.009A (74A)	Schraube Screw Tornillo	12	Getriebegehäuse Gear housing Caja mecanismo	1
164	10.1272-02.007	Einblicklinse Viewfinder eyepiece Lente del ocular	3,12	Getriebegehäuse Gear housing Caja mecanismo	1
165	10.1272-02.008	Maske Mask Mascarilla	12	Getriebegehäuse Gear housing Caja mecanismo	1
166	10.1291-03.006 (66 548)	Lagerbolzen Bearing bolt Perno soporte	9,11	Getriebegehäuse Gear housing Caja mecanismo	1
167	10.1281-03.033 (93 126)	Henkelöse Lug-eyelet Ojal	11	Getriebegehäuse Gear housing Caja mecanismo	2
168	10.1281-03.042 (112 406)	Einlage Insertion Suplemento	12	Getriebegehäuse Gear housing Caja mecanismo	1
169	10.1281-03.043 (113 802)	Dichtungsstreifen Sealing strip Tira de empaquetadura	12	Getriebegehäuse Gear housing Caja mecanismo	1
170	10.1281-03.040B (33 336B)	Mitnehmer Catch Arrastrador	3,12	Getriebegehäuse Gear housing Caja mecanismo	1

Lfd. Nr. No. Nos.cont.	Bestellnummer Order No. Número de pedido	Bezeichnung Name of part Designación	Ill. Ill. Illustr.	Baugruppe Assembly-group Grupo de montaje	Stück Piece Pieza
171	10.1281-00.042 (23 833)	Druckfeder Pressure spring Muelle de presión	12	Getriebegehäuse Gear housing Caja mecanismo	1
172	10.1281-03.018A (113 603a)	Unterlegscheibe Washer Arandela	12	Getriebegehäuse Gear housing Caja mecanismo	1
173	M 1,4x5 ZIN 2281	Gewindestift Grubscrew Perno roscado	9,11	Getriebegehäuse Gear housing Caja mecanismo	1
174	M 1,7x3,5 ZIN 2084	Zylinderschraube Cylinder screw Tornillo cilíndrico	11,12	Getriebegehäuse Gear housing Caja mecanismo	2
175	M 1,7x2,5 ZIN 2084	Zylinderschraube Cylinder screw Tornillo cilíndrico	11,12	Getriebegehäuse Gear housing Caja mecanismo	1
176	M 1,7x8/6 ZIN 2515	Zylinderschraube Cylinder screw Tornillo cilíndrico	11	Getriebegehäuse Gear housing Caja mecanismo	2
177	1,8x4x0,2 ZIN 2351	Scheibe Washer Arandela	12	Getriebegehäuse Gear housing Caja mecanismo	(1)
178	1,8x4x0,6 ZIN 2351	Scheibe Washer Arandela	12	Getriebegehäuse Gear housing Caja mecansimo	(1)
179	3,8x5,8x0,1 ZIN 2351	Scheibe Washer Arandela	12	Getriebegehäuse Gear housing Caja mecansimo	(1)
180	3,8x5,8x0,2 ZIN 2351	Scheibe Washer Arandela	12	Getriebegehäuse Gear housing Caja mecanismo	(1)
181	10.1272-02.030-U	Mitnehmer mont. Catch ass. Arrastrador mont.	12	Getriebegehäuse Gear housing Caja mecanismo	1
182	10.1272-02.035-U	Mitnehmer mit Feder Catch with spring Arrastrador con muelle	3,12	Getriebegehäuse Gear housing Caja mecansimo	1
183	10.1272-02.031	Feder Spring Muelle	12	Getriebegehäuse Gear housing Caja mecanismo	1
184	10.1272-02.032	Unterlegscheibe Washer Arandela	12	Getriebegehäuse Gear housing Caja mecanismo	1
185	10.1281-03.019 (33 338)	Flansch Flange Brida	12	Getriebegehäuse Gear housing Caja mecanismo	1

Lfd.Nr. No. Nos.cont.	Bestellnummer Order No. Número de pedido	Bezeichnung Name of part Designación	Ill. Ill. Ilustr.	Baugruppe Assembly-group Grupo de montaje	Stück Piece Pieza
191	10.1272-03.000A	Objektivträger mont. (ohne Verschluß 311) Lens carrier ass. (without shutter 311) Portaobjetivo mont. (sin obturador 311)	17	Camera kompl. Camera compl. Cámara compl.	1
192	10.1272-03.001AU	Objektivträger vormont. (ohne Gewindering 230) Lens carrier pre ass. (without threaded ring 230) Portaobjetivo premont. (sin anillo con rosca 230)	18	Objektivträger Lens carrier Portaobjetivo	1
193	10.1272-03.002-U	Zeithebel Speed lever Palanca de velocidades	18	Objektivträger Lens carrier Portaobjetivo	1
194	10.1272-03.004-U	Spannplatte Clamping plate Placa tensora	17	Objektivträger Lens carrier Portaobjetivo	1
195	10.1271-02.042-U (45 432 Tm)	Flansch Flange Brida	18	Objektivträger Lens carrier Portaobjetivo	1
196	10.1272-03.022-U	Zeitkurve Cam Curva	5, 19	Objektivträger Lens carrier Portaobjetivo	1
197	10.1272-03.029	Isolierschlauch 6,5 mm Insulating sleeve 6,5 mm Tubo aislador 6,5 mm	16	Objektivträger Lens carrier Portaobjetivo	2
198	10.1272-03.032	Isolierschlauch 68 mm Insulating sleeve 68 mm Tubo aislador 68 mm	16	Objektivträger Lens carrier Portaobjetivo	1
199	10.1272-03.005	Führungswinkel Guide angle Escuadra guía	18	Objektivträger Lens carrier Portaobjetivo	1
200	10.1271-02.004 (29 353)	Führungswinkel Guide angle Escuadra guía	18	Objektivträger Lens carrier Portaobjetivo	1
201	10.1272-03.006	Stange Rod Tirante	18	Objektivträger Lens carrier Portaobjetivo	(1)
202	10.1272-03.033	Stange Rod Tirante	18	Objektivträger Lens carrier Portaobjetivo	(1)
203	10.1272-03.028	Sicherungsscheibe Locking disc Disco de aseguramiento	16	Objektivträger Lens carrier Portaobjetivo	3
204	10.1272-03.008	Sicherungsring Locking ring Anillo de seguridad	19	Objektivträger Lens carrier Portaobjetivo	1

Pos. Nr. No. Nos.cont.	Bestellnummer Order No. Número de pedido	Bezeichnung Name of part Designación	Ill. Ill. Illustr.	Baugruppe Assembly-group Grupo de montaje	Stück Piece Pieza
205	10.1272-03.009	Zylinderschraube Cylinder screw Tornillo cilíndrico	18	Objektivträger Lens carrier Portaobjetivo	1
206	10.1272-03.011A	Feder Spring Muelle	16	Objektivträger Lens carrier Portaobjetivo	1
207	10.1272-03.012A	Feder Spring Muelle	18	Objektivträger Lens carrier Portaobjetivo	1
208	10.1272-03.013	Ansatzschraube Rim screw Tornillo con resalte	18	Objektivträger Lens carrier Portaobjetivo	1
209	10.1272-03.014	Lötfahne Soldering terminal Terminal para soldar	18	Objektivträger Lens carrier Portaobjetivo	1
210	10.1272-03.015	Drehfeder Torsion spring Muelle de torsion	18	Objektivträger Lens carrier Portaobjetivo	1
211	10.1272-03.016	Schaltdraht (Blitzkontakt) Control wire (Flash contact) Alambre de contacto (flash)	9,16	Objektivträger Lens carrier Portaobjetivo	1
212	10.1272-03.017	Schaltdraht Control wire Alambre de contacto	9,16	Objektivträger Lens carrier Portaobjetivo	1
213	10.1272-03.018	Massedraht Earth wire Alambre de puesta a masa	9,16	Objektivträger Lens carrier Portaobjetivo	1
214	10.1272-03.019	Gewindestift Grubscrew Perno roscado	18	Objektivträger Lens carrier Portaobjetivo	1
215	10.1271-02.002 (45 433)	Triebachse Driving spindle Eje de impulsión	5,18	Objektivträger Lens carrier Portaobjetivo	1
216	10.1271-02.010 (25 434)	Deckplättchen, rechts Cover slide, right Plaquita derecha	19	Objektivträger Lens carrier Portaobjetivo	1
217	10.1271-02.011 (25 435)	Deckplättchen, links Cover slide, left Plaquita izquierda	19	Objektivträger Lens carrier Portaobjetivo	1
218	M 1,7x4,5 ZIN 2084	Zylinderschraube Cylinder screw Tornillo cilíndrico	18	Objektivträger Lens carrier Portaobjetivo	4
219	M 1,7x5 ZIN 2084	Zylinderschraube Cylinder screw Tornillo cilíndrico	16	Objektivträger Lens carrier Portaobjetivo	3
220	1,2 DIN 6799	Sicherungsscheibe Locking disc Disco de aseguramiento	18	Objektivträger Lens carrier Portaobjetivo	1

Lfd.Nr. No. Nos.cont.	Bestellnummer Order No. Número de pedido	Bezeichnung Name of part Designación	Ill. Ill. Ilustr.	Baugruppe Assembly-group Grupo de montaje	Stück Piece Pieza
221	M 1,7x2,3 ZIN 2511	Senkschraube Countersunk screw Tornillo embutido	18	Objektivträger Lens carrier Portaobjetivo	2
222	M 1,4x2,5 ZIN 2553	Gewindestift Grubscrew Perno roscado	18,20	Objektivträger Lens carrier Portaobjetivo	5
223	1,8x3x0,05 ZIN 2351	Scheibe Washer Arandela	19	Objektivträger Lens carrier Portaobjetivo	(3)
224	1,8x3x0,2 ZIN 2351	Scheibe Washer Arandela	19	Objektivträger Lens carrier Portaobjetivo	(3)
225	3,8x6x0,1 ZIN 2351	Scheibe Washer Arandela	5	Objektivträger Lens carrier Portaobjetivo	(1)
226	3,8x6x0,2 ZIN 2351	Scheibe Washer Arandela	5	Objektivträger Lens carrier Portaobjetivo	(1)
227	A 1,8 DIN 6797	Zahnscheibe Gear disc Disco dentada	16,18	Objektivträger Lens carrier Portaobjetivo	5
228	M 1,7x2 ZIN 2084	Zylinderschraube Cylinder screw Tornillo cilíndrico	16	Objektivträger Lens carrier Portaobjetivo	2
230	10.1272-03.003-U	Gewindering vormont. Threaded ring preass. Anillo con rosca premont.	19	Objektivträger Lens carrier Portaobjetivo	1
231	10.1272-03.045	Gewindering Threaded ring Anillo con rosca	5,19,20	Gewindering vormont. Threaded ring preass. Anillo con rosca premont.	1
232	10.1272-03.046	Gewindering (außen) Threaded ring (outside) Anillo con rosca (exterior)	19,20	Gewindering vormont. Threaded ring preass. Anillo con rosca premont.	1
233	10.1272-03.047	Gewindering (innen) Threaded ring (inside) Anillo con rosca (interior)	5,19,20	Gewindering vormont. Threaded ring preass. Anillo con rosca premont.	1
234	10.1272-03.048	Einstellring Setting ring Anillo de ajuste	19,20	Objektivträger Lens carrier Portaobjetivo	1
235	10.1272-03.049	Griff Grip Asidero	2,17	Camera kompl. Camera compl. Cámara compl.	1
236	10.1272-03.050	Griff Grip Asidero	2,17	Camera kompl. Camera compl. Cámara compl.	1
237	M 1,7x6,8 ZIN 2920	Linsenschraube Oval head screw Tornillo alomado	2,3	Camera kompl. Camera compl. Cámara compl.	2

Lfd.Nr. No. Nos.cont.	Bestellnummer Order No. Número de pedido	Bezeichnung Name of part Designación	Ill. Ill. Illustr.	Baugruppe Assembly-group Grupo de montaje	Stück Piece Pieza
241	10.1281-04.000 (26 409 M)	Getriebe vollst. Gear compl. Mecanismo compl.	10,25	Camera kompl. Camera compl. Cámara compl.	1
242	10.1281-04.001-U (26 409 T)	Platine Bed plate Platina	25	Getriebe Gear Mecanismo	1
243	10.1281-04.013-U (85 604 T)	Steuerhebel Control lever Palanca de mando	25	Getriebe Gear Mecanismo	1
244	10.1281-04.020 (23 825)	Steuerfeder Control spring Resorte de mando	25	Getriebe Gear Mecanismo	1
245	1,5 DIN 6799	Sicherungsscheibe Locking disc Disco de aseguramiento	25	Getriebe Gear Mecanismo	2
246	10.1281-04.021 (85 606)	Sperrhebel Locking lever Palanca de trinquete	10,25	Getriebe Gear Mecanismo	1
247	10.1281-04.022 (15 571)	Lagerbuchse Bearing bush Casquillo de cojinete	25	Getriebe Gear Mecanismo	1
248	M 1,7x3 DIN 84	Zylinderschraube Cylinder screw Tornillo cilíndrico	10,25	Getriebe Gear Mecanismo	7
249	10.1281-04.023AU (66 281 AT)	Filmschlüsselbolzen mont. Film key bolt ass. Perno de llave de película mont.	25	Getriebe Gear Mecanismo	1
250	10.1281-04.030 (23 830)	Getriebefeder Gear spring Resorte des mecanismo	25	Getriebe Gear Mecanismo	1
251	10.1281-04.031 (45 467A)	Sperrad Ratchet wheel Rueda de trinquete	25	Getriebe Gear Mecanismo	1
252	10.1281-04.032-U (42 269 T)	Mitnehmer Catch Arrastrador	25	Getriebe Gear Mecanismo	1
253	10.1281-04.039 (72 608)	Kupplungsscheibe Thrust clutch Disco de acoplamiento	6,25	Getriebe Gear Mecanismo	1
254	10.1281-04.088 (Ss 234)	Senkschraube Countersunk screw Tornillo embutido	6,25	Getriebe Gear Mecanismo	3
255	10.1281-04.087-U (66 279 Im/1)	Abdrückbolzen Release trigger bolt Perno disparador	25	Getriebe Gear Mecanismo	1
256	10.1281-04.045 (65 442)	Nockenscheibe Cam spindle Eje de levas	25	Getriebe Gear Mecanismo	1

Lfd.Nr. No. Nos.cont.	Bestellnummer Order No. Número de pedido	Bezeichnung Name of part Designación	Ill. Ill. Ilustr.	Baugruppe Assembly-group Grupo de montaje	Stück Piece Pieza
257	10.1281-04.046 (45 468)	Kegelrad Bevel gear Rueda cónica	25	Getriebe Gear Mecanismo	1
258	10.1281-04.047-U (45 463 Tm)	Stirnrad Spur wheel Rueda recta	25	Getriebe Gear Mecanismo	1
259	M 1,7x2,5 ZiN 515	Zylinderschraube Cylinder screw Tornillo cilíndrico	7,25	Getriebe Gear Mecanismo	3
260	10.1281-04.052-U (29 341 Tm)	Lagerwinkel Bearing angle Escuadra con remache	25	Getriebe Gear Mecanismo	1
261	10.1281-04.057 (45 469)	Kegel- und Stirnrad Bevel gear and spur wheel Rueda cónica y recta	25	Getriebe Gear Mecanismo	1
262	10.1281-04.058-U (85 603 Tm)	Sperrhebel Locking lever Palanca de trinquete	25	Getriebe Gear Mecanismo	1
263	10.1281-04.063 (23 828)	Feder Spring Muelle	25	Getriebe Gear Mecanismo	1
264	10.1281-04.064 (66 287)	Anschlagbolzen Stopping bolt Perno tope	25	Getriebe Gear Mecanismo	1
265	10.1281-04.067-U (45 466 Tm)	Ankerrad Armature wheel Rueda motriz	25	Getriebe Gear Mecanismo	1
266	10.1281-04.072AU (26 408 ATm)	Platine mit Feder Bed plate with spring Platina con resorte	25	Getriebe Gear Mecanismo	1
267	10.2400-13.243 (85 654)	Anker Armature Ancora	25	Getriebe Gear Mecansimo	1
268	M 1,4x3 ZIN 515	Zylinderschraube Cylinder screw Tornillo cilíndrico	25	Getriebe Gear Mecanismo	1
269	10.1281-04.081 (23 826)	Zugfeder Draw spring Muelle de extensión	10,25	Getriebe Gear Mecanismo	1
270	10.1281-04.082 (23 834)	Drehfeder Torsion spring Muelle de torsión	6	Getriebe Gear Mecanismo	1
271	10.1272-05.000	Dachprima vollst. Penta-prism compl. Prisma tipo techo compl.	10,21	Camera kompl. Camera compl. Cámara compl.	1
272	10.1272-05.003	Primengehäuse Prism housing Caja de prismas	10,21	Prisma kompl. Prism compl. Prisma compl.	1

lfd. Nr. No. Nos.cont.	Bestellnummer Order No. Número de pedido	Bezeichnung Name of part Designación	Ill. Ill. Ilustr.	Baugruppe Assembly-group Grupo de montaje	Stück Piece Pieza
273	10.1272-05.004	Stufenlinse Fresnel lens Lente escalonado	21	Prisma vollst. Prism compl. Prisma compl.	1
274	10.1272-05.005	Maske Mask Máscara	21	Prisma vollst. Prism compl. Prisma compl.	1
275	10.1272-05.007	Feldlinse Field lens Lente de campo	21	Prisma vollst. Prism compl. Prisma compl.	1
276	10.1272-05.009	Maske Mask Máscara	21	Prisma vollst. Prism compl. Prisma compl.	1
277	10.1272-05.010	Drahtbügel Wire yoke Arco de alambre	21	Prisma vollst. Prism compl. Prisma compl.	1
278	10.1281-07.008A (103 419A)	Einlage Insertion Suplemento	21	Prisma vollst. Prism compl. Prisma compl.	1
279	10.1281-07.011 (29 325)	Winkel Angle Escuadra	21	Prisma vollst. Prism compl. Prisma compl.	1
280	10.1281-07.015 (23 693)	Haltefeder Retaining spring Resorte de sujeción	10,21	Prisma vollst. Prism compl. Prisma compl.	1
281	10.1271-04.014 (23 904)	Feder Spring Muelle	10,21	Prisma vollst. Prism compl. Prisma compl.	1
282	10.1272-05.011	Isolierschlauch Insulating sleeve Tubo aislador	21	Prisma vollst. Prism compl. Prisma compl.	2
283	10.1281-07.025 (95 386)	Maske Mask Máscara	21	Prisma vollst. Prism compl. Prisma compl.	1
284	10.1272-05.015	Dachprisma Penta-prism Prisma tipo techo	21	Prisma vollst. Prism compl. Prisma compl.	1
285	10.1272-05.016	Schutzkappe Protecting cap Tapa protectora	10,21	Prisma vollst. Prism compl. Prisma compl.	1
286	10.1271-04.013 (112 438)	Deckplatte Cover plate Placa de cubierta	10,21	Prisma vollst. Prism compl. Prisma compl.	(1)
291	10.1272-06.000	Belichtungsmesser vollst. Exposure meter compl. Exposímetro compl.	10	Camera kompl. Camera compl. Cámara compl.	1
292	10.1272-06.007-U	Achse Axle Eje	26	Belichtungsmesser Exposure meter Exposímetro	1

Lfd. Nr. No. Nos.cont.	Bestellnummer Order No. Número de pedido	Bezeichnung Name of part Designación	Ill. Ill. Ilustr.	Baugruppe Assembly-group Grupo de montaje	Stück Piece Pieza
293	10.1272-06.008-U	Hebel Lever Palanca	10	Belichtungsmesser Exposure meter Exposímetro	1
294	10.1272-06.014	Schraube Screw Tornillo	10	Belichtungsmesser Exposure meter Exposímetro	1
296	10.1272-06.017	Scheibe Washer Arandela	10,26	Belichtungsmesser Exposure meter Exposímetro	1
297	10.1272-06.018	Scheibe Washer Arandela	26	Belichtungsmesser Exposure meter Exposímetro	1
298	10.1272-06.019	Maske Mask Máscara	26	Belichtungsmesser Exposure meter Exposímetro	1
299	10.1272-06.020	Anschlag Stop Tope	26	Belichtungsmesser Exposure meter Exposímetro	2
300	10.1272-06.024	Feder Spring Muelle	26	Belichtungsmesser Exposure meter Exposímetro	1
301	10.1272-06.026A	Drehfeder Torsion spring Muelle de torsión	26	Belichtungsmesser Exposure meter Exposímetro	1
302	10.1271-05.010 (Ss 243)	Zylinderschraube Cylinder screw Tornillo cilíndrico	26	Belichtungsmesser Exposure meter Exposímetro	2
303	10.1271-05.017 (116 671)	Schaltdraht Control wire Alambre de contacto	10	Belichtungsmesser Exposure meter Exposímetro	2
304	10.1272-06.075	Deckel Cover Tapa	26	Belichtungsmesser Exposure meter Exposímetro	1
305	10.0636-03.004	Heißleiter Thermistor Resistencia de compensación	10	Belichtungsmesser Exposure meter Exposímetro	1
306	21.0530-00.004	Regelwiderstand Regulating resistance Resistencia regulable	10	Belichtungsmesser Exposure meter Ecposímetro	1
307	M 1,7x4 ZIN 2515	Zylinderschraube Cylinder screw Tornillo cilíndrico	10	Belichtungsmesser Exposure meter Exposímetro	2
309	M 1,4x3,5 ZIN 2063	Senkschraube Countersunk screw Tornillo embutido	26	Belichtungsmesser Exposure meter Exposímetro	1
311	10.1272-07.000	Verschluß mit Objektiv Shutter with lens Obturador con objetivo	2,5	Camera kompl. Camera compl. Cámara compl.	1

Lfd.Nr. No. Nos.Cont.	Bestellnummer Order No. Número de pedido	Bezeichnung Name of part Designación	Ill. Ill. Illustr.	Baugruppe Assembly-group Grupo de montaje	Stück Piece Pieza
312	10.1272-07.002A	Abschlußring Terminal ring Anillo terminal	1	Verschluß Shutter Obturador	1
313	10.1272-07.003	Schraube Screw Tornillo	1	Verschluß Shutter Obturador	3
314	10.1272-07.004	Federscheibe Spring plate Disco resorte	1	Verschluß Shutter Obturador	1
315	1110 30 556 178	Griff Grip Asidero	4	Verschluß Shutter Obturador	1
316	1110 30 556 542	Schraube Screw Tornillo	4	Verschluß Shutter Obturador	2
317	1110 30 556 541 01	Leitzahlskala (für Meter-DIN) Guide number scale (for metre-DIN) Escala de los números de guia (para metros-DIN)	2	Verschluß Shutter Obturador	(1)
318	1110 30 556 551 01	Leitzahlskala (für feet-ASA) Guide number scale (for feet-ASA) Escala de los números de guia (para metros-ASA)	2	Verschluß Shutter Obturador	(1)
319	1110 40 556 539	Verschlußzeit-Einstellring Shutter speed setting ring Anillo de ajuste velocidades	2	Verschluß Shutter Obturador	1
321	10.1281-19.000 (52 412 M/2)	Rückwand kompl. Back panel compl. Tapa trasera compl.	4,27	Camera kompl. Camera compl. Cámara compl.	1
322	10.1281-09.006AU (52 412 T/1)	Rückwand mit Boden Back panel with bottom Tapa trasera con base	27	Rückwand Back panel Tapa trasera	1
323	10.1281-09.040 (65 492)	Lagerachse Bearing spindle Eje de soporte	27	Rückwand Back panel Tapa trasera	1
324	10.1281-09.023AU (91 086 ATm)	Kurvenscheibe Cam Disco de curva	27	Rückwand Back panel Tapa trasera	1
325	10.1281-09.020 (33 313)	Gleitrolle Slide roller Rodillo deslizante	27	Rückwand Back panel Tapa trasera	1
326	10.1281-09.007 (109 187/1)	Bezug für Rückwand Covering for Back panel Revestimiento para tapa trasera	27	Rückwand Back panel Tapa trasera	1
327	2,5x6x0,3 ZIN 2351	Scheibe Washer Arandela	27	Rückwand Back panel Tapa trasera	1

Lfd.Nr. No. Nos.cont.	Bestellnummer Order No. Número de pedido	Bezeichnung Name of part Designación	Ill Ill. Ilustr.	Baugruppe Assembly-group Grupo de montaje	Stück Piece Pieza
328	2,5x0,6 ZIN 2363	Greifring Grip ring Anillo de sujeción	27	Rückwand Back panel Tapa trasera	1
329	10.1281-09.041 (23 903)	Feder Spring Muelle	27	Rückwand Back panel Tapa trasera	1
330	1,8x5x0,1 ZIN 2351	Scheibe Washer Arandela	27	Rückwand Back panel Tapa trasera	(1)
331	1,8x5x0,3 ZIN 2351	Scheibe Washer Arandela	27	Rückwand Back panel Tapa trasera	(1)
332	SF M 1,7x3,5 ZIN 2514	Linsensenkschraube Oval head countersunk screw Tornillo de cabeza lenticular	27	Rückwand Back panel Tapa trasera	1
333	10.1281-09.042-U (42 314 T)	Verriegelungsscheibe Locking disc Disco de cierre	27	Rückwand Back panel Tapa trasera	2
334	10.1281-09.002A (22 444a)	Sattelfeder Saddle spring Resorte forma	27	Rückwand Back panel Tapa trasera	2
335	15,5x22x0,1 ZIN 2351	Scheibe Washer Arandela	27	Rückwand Back panel Tapa trasera	2
336	15,5x22x0,05 ZIN 2351	Scheibe Washer Arandela	27	Rückwand Back panel Tapa trasera	(2)
337	10.1281-09.044 (34 800)	Verriegelungsblech Locking sheet Chapa de cierre	27	Rückwand Back panel Tapa trasera	1
338	10.1281-09.045 (34 801)	Verriegelungsblech Locking sheet Chapa de cierre	27	Rückwand Back panel Tapa trasera	1
339	10.1281-09.046 (60 221)	Überwurfmutter Cap screw Tuerca de racor	27	Rückwand Back panel Tapa trasera	2

ZEISS IKON

Contaflex Super

(10.1262)
(1965)

SERVICE MANUAL

Published January 1965

Repair Instructions

Contaflex super, Cat. No. 10.1262

(Only complete in connection with the Repair Instructions for Contaflex super B, Cat. No. 10.1272)

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Zeiss Ikon AG
Stuttgart

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Zeiss Ikon AG
Stuttgart

General Notes

The Contaflex super, Cat.No. 10.1262 possesses the following characteristic features:

Shutter:	Synchro-Compur 1112-558a with speeds from 1 sec to 1/500, B, X synchronization, and delayed-action release.
Lens:	Carl Zeiss, Tessar f/2.8, 50 mm, with interchangeable front elements in bayonet mounts, helical-screw focusing.
Exposure meter:	Coupled, needle reflected in the viewfinder and visible outside on the top capping.
Rangefinder:	Dual rangefinder with split-image circle and finegrain ground-glass ring.

The Contaflex super 10.1262 largely corresponds in its buildup to the Contaflex super B 10.1272, but has no automatic exposure control and no automatic flash exposure control system.

Caution! The list of spare parts only contains those parts which have newly been added for the Contaflex super 10.1262.
All parts not listed have been taken over from the Contaflex super B 10.1272 and are mentioned in the list of spare parts of that camera.
When ordering spare parts, please state the Order Number and the Name of part.

Slight variations in the description, etc., of parts may be encountered as the result of technical improvements.

Dismantling

The dismantling instructions for the Contaflex super B should be applied appropriately.

Assembling and Adjusting Instructions

The assembly also largely corresponds to that of the Contaflex super B. The following items are slightly different:

Installation of the exposure meter instrument (Fig. 33)

When installing a new instrument 425, care should be taken that the long brass lever at the lower bedplate of the exposure meter housing has the position shown in Fig. 33. At the same time, the dot on the plastics gear should be visible through the hole in the movable part of the bridge. It is advisable to mark the position of the long brass lever before the old instrument is removed.

Caution! The long brass lever and the movable part on the bridge of the lower bedplate should not at the same time be pressed to stop-position, as this may lead to a distortion of the needle.

The zero point of the exposure meter

(In not yet built-up condition)
The needle should stand within the point on the scale of the exposure meter (in the rear red triangle). Adjust the zero point at the adjusting tag of the holding bridge for the instrument.

Fitting the exposure meter

Set the shutter to B and f/2.8. Insert the exposure meter 424 in such a manner that the long brass lever located at the lower bedplate is carried along with the light value lever 441 when the shutter speed disk is turned.

Zero point of the exposure meter

(In installed and connected condition)
With the photoelectric cell completely covered, shutter position B, lens stop 2.8, and 18 DIN (50 ASA), the needle should stand outside the notch of the internal reading downwards and on the external reading in the rear red triangle.

Calibration of the exposure meter

The calibration of the exposure meter can only be checked in mounted condition, i. e. in interaction with the camera.
Adjust the calibration in the lower range by bending at the lever 428, and in the upper range at the variable resistor.

Dismantling and assembling of the shutter on the mounted camera

Set the shutter to B and f/22. Distance setting: infinity. In this position, also the white adjusting stroke is visible (see arrow Fig. 32) which corresponds to the shutter setting B and f/22. In this position, the white adjusting stroke should be precisely on the level of the contact surface of the light value lever 411.
Install in reverse sequence.

S p e c i a l T o o l s

The special tools required for the Contaflex super B are also used for the Contaflex super.

L u b r i c a t i o n C h a r t

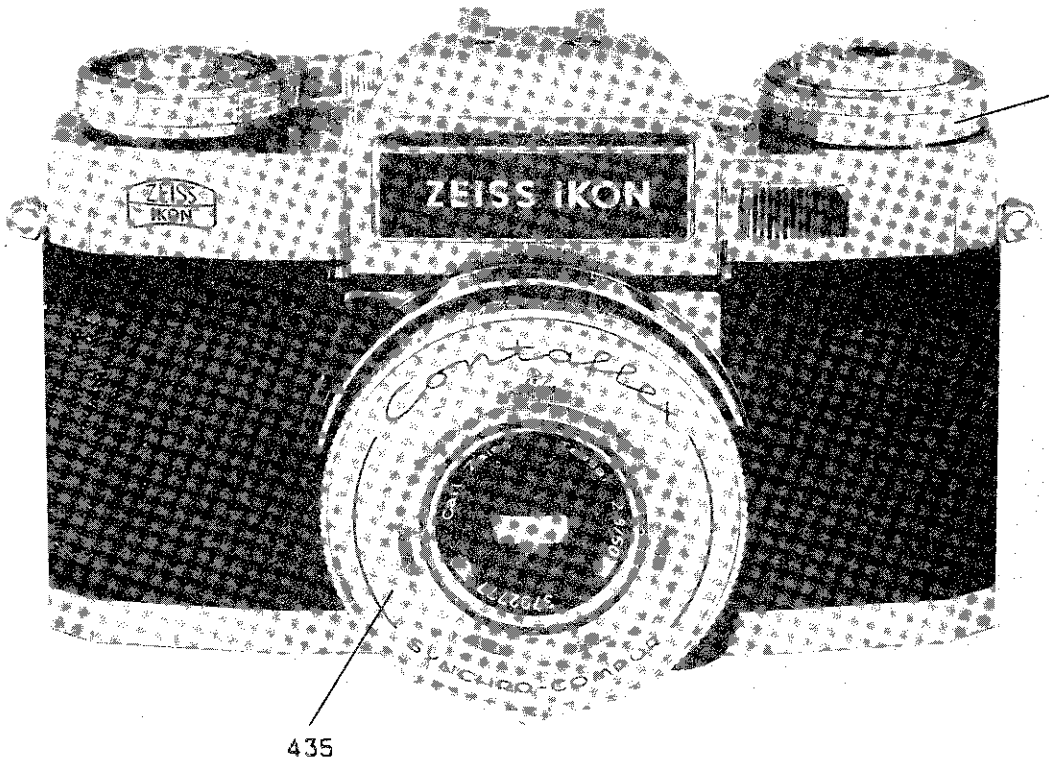
The l brication chart of the Contaflex super B should be applied appropriately.

T e s t i n g I n s t r u c t i o n s

The testing instructions for tne Contaflex super B should be applied appropriately. An additional item is the following:

Zero point of the exposure meter

With the photoelectric cell completely covered, shutter position B, lens stop 2.8, and 18 DIN (50 ASA), the needle should stand outside the notch of the internal reading downwards and on the external reading in the rear red triangle.



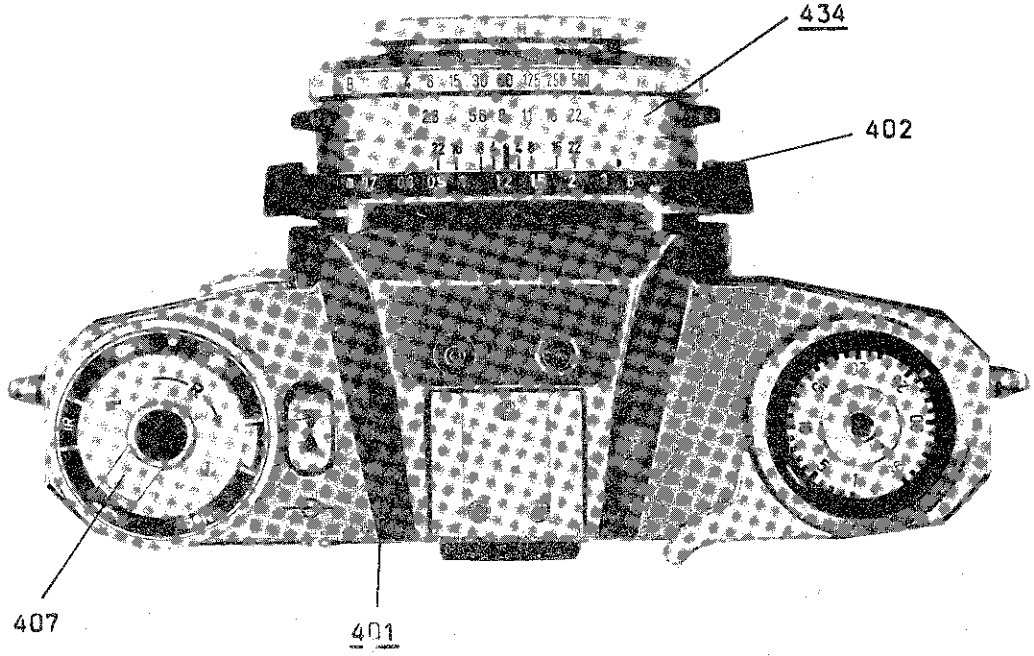
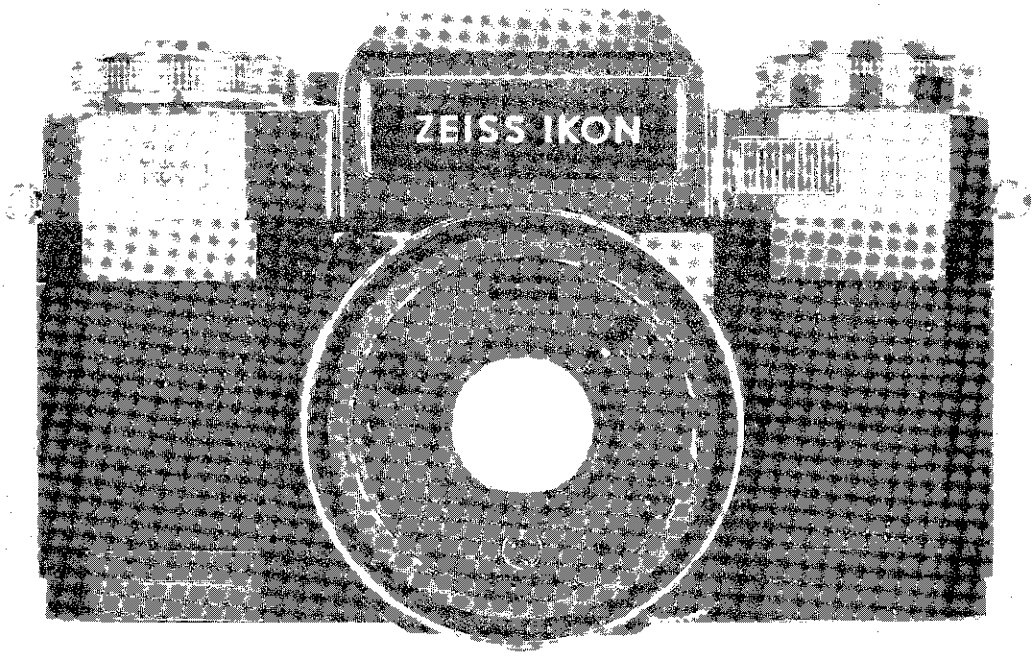


Fig. 31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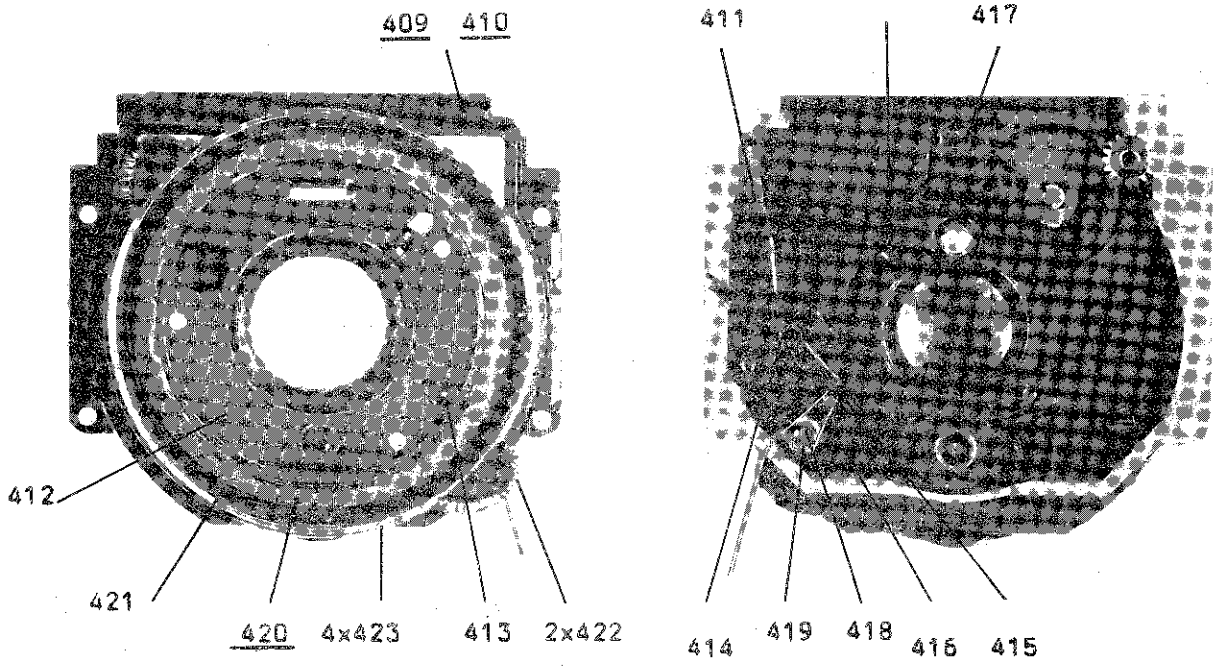
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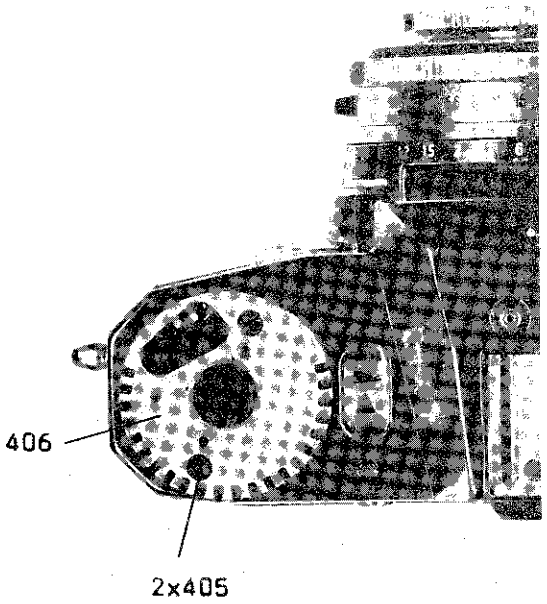
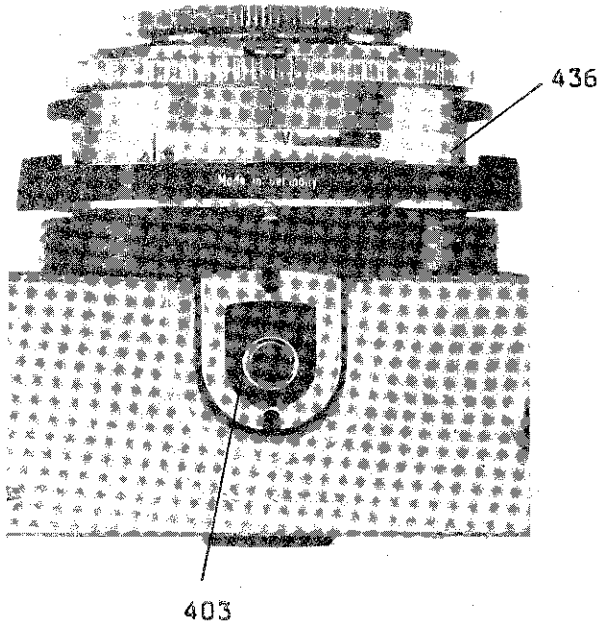
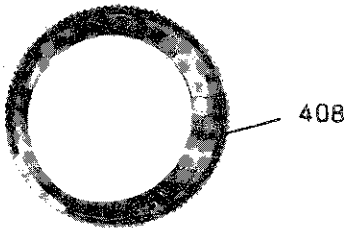
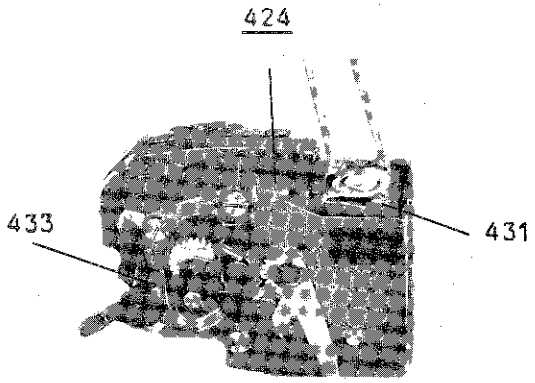
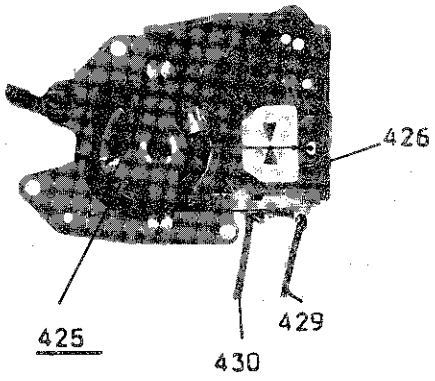
Fig. 32











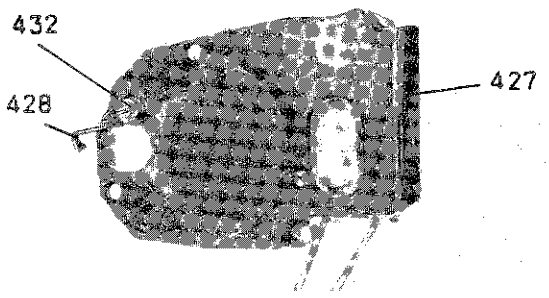


Fig. 33

Zeiss Ikon AG
Stuttgart

Ausgabe Januar 1965

Ersatzteilliste

List of Spare Parts

Lista de piezas de recambio

Liste de pièces détachée

Contaflex super, Kat.Nr. 10.1262

Für eine schnelle und sachgemäße Bearbeitung eines Ersatzteilauftrages benötigt unser Ersatzteillager alle Angaben aus dem starkumrandeten Teil der Ersatzteilliste (Bestellnummer und Bezeichnung).

To ensure quick and proper execution of your spare part order our Spare Part Department requires every information given in the strongly lined column of the List of Spare Parts (Order No. and name of part).

Nuestra sección de piezas de recambio necesita para una ejecución y correcta de sus encargos todos los datos de la parts fuertemente perfilado en la lista de piezas de recambio (Número de pedido y designación).

Afin de pouvoir exécuter rapedement les commandes de pièces détachées, notre magasin doit avoir toutes les indications de la partie encadrée de traits gras (No de commande et désignation).

Nr. No. Nos. No.	Bestellnummer Order No. Número de pedido No. de commande	Bezeichnung Name of part Designación Désignation	Fig. Fig. Fig. Fig.	Bemerkung Notes Nota Note	Stück Piece Pieza Pièce
401	10.1262-00.001-U	Deckkappe mont. Top capping ass. Tapa mont. Couvercle monté	31		1
402	10.1262-00.007	E-Skala Distance scale Escala Echelle	31	meter und feet metre and feet metros y feet mètre et feet	1
403	10.1272-00.032	Scheibe Disc Arandela Disque	33		1
404	10.1272-00.023	Deckplatte Cover plate Disco de recubri- miento Disque de couverture		zu Prisma vollst. for prism cpl. para prisma cpl. pour prisme cpl.	1
405	M 1,7x3,5 ZIN 2063-55	Senkschraube Countersunk screw Tornillo embutido Vis noyée	33		2
406	10.1262-00.002-U	Platine mont. Plate ass. Platina mont. Platine montée	33		1

Nr. No. Nos. No.	Bestellnummer Order No. Número de pedido No. de commande	Bezeichnung Name of part Designación Désignation	Fig. Fig. Fig. Fig.	Bemerkung Notes Nota Note	Stück Piece Pieza Pièce
407	10.1272-00.009-U	Kurbel mont. Crank ass. Manivela mont. Manivelle montée	31		1
408	10.1262-00.005	Ring Ring Anillo Bague	31,33		1
409	10.1262-03.000	Objektivträger mont. Lens carrier ass. Portaobjetivo mont. Porte-objectif monté	32	ohne Verschluß 434 mit Gewindering420 without snutter434 with theaded ring 420 sin obturador 434 con anillo con rosca 420 sans obturateur434 avec bague filetée 420	1
410	10.1262-03.001-U	Objektivträger vorm. Lens carrier pre ass. Portaobjetivo premont. Porte-objectif pré-monté	32	ohne Gewindering420 without threaded ring 420 sin anillo con rosca 420 sans bague filetée 420	1
411	10.1262-03.002-U	Lichtwerthebel mont. Light value lever ass. Palanca mont. Levier monté	32		1
412	10.1262-03.004-U	Spannplatte mont. Clamping plate ass. Placa tensora mont. Plaque d'armement monté	32		1
413	10.1271-02.053-U (103 614 Tm)	Isolierstück mit Kontaktbolzen Insulating piece with contact bolt Pieza aislador con perno de contacto Pièce d'isolation avec pointe de contact	32		1
414	10.1262-03.010	Feder Spring Muelle Ressort	32		1
415	10.1271-02.005 (103 613)	Isolierstück Insulating piece Pieza aislaora Pièce d'isolation	32		1

Nr. No. Nos. No.	Bestellnummer Order No. NÚmero de pedido No. de commande	Bezeichnung Name of part Designación Désignation	Fig. Fig. Fig. Fig.	Bemerkung Notes Nota Note	Stück Piece Pieza Pièce
416	10.1271-02.006 (22 774)	Kontaktfeder Contact spring Muelle de contacto Ressort de contact	32		1
417	10.1271-02.058 (Ss 230)	Zylinderschraube Cylinder screw Tornillo cilíndrico Vis cylindrique	32		1
418	M 1,7x2,2 ZIN 2515-5S	Zylinderschraube Cylinder screw Tornillo cilíndrico Vis cylindrique	32		1
419	1,8x4x0,3 ZIN 2351-Hp	Scheibe Washer Arandela Disque	32		1
420	10.1262-03.003-U	Gewindering vormont. Threaded ring preass. Anilo con rosca prem. Bague filetée premont.	32		1
421	10.1262-03.014	E-Ring Distance ring Anilo telemétrico Bague des distances	32		1
422	M 1,7x7 ZIN 2920-5S	Linsenschraube Oval head screw Tornillo alomado Vis Tête lentille	32		2
423	M 1,4x3 ZIN 2553-5S	Gewindestift Grub screw Perno roscado Goujon fileté	32		4
424	10.1262-06.000	Belí vollst. Exposure meter cpl. Exposímetro cpl. Posemètre cpl.	33		1
425	21 0529-00.000	K-Instrument K-Instrument Instrumento K Instrument	33		1
426	10.1262-06.005	Anschlag Stop Tope Butée	33		1
427	10.1262-06.008A	Maske Mask Mascarilla Masque	33		1

Nr. No. Nos. No.	Bestellnummer Order No. Número de pedido No. de commande	Bezeichnung Name of part Designación Désignation	Fig. Fig. Fig. Fig.	Bemerkung Notes Nota Note	Stück Piece Pieza Pièce
428	10.1272-06.085A	Hebel Lever Palanca Levier	33		1
429	10.1271-05.017 (116 671)	Schaltdraht Control wire Alambre de contacto Câble de commande	33		1
430	10.1272-06.099	Schaltdraht Control wire Alambre de contacto Câble de commande	33		1
431	10.0652-03.010	Heißleiter Thermistor Resistencia de comp. Thermo-résistance	33		1
432	M 1,7x3,5 ZIN 2084-Ms	Zylinderschraube Cylinder screw Tornillo cilíndrico Vis cylindrique	33		1
433	10.1281-04.088 (Ss 234)	Senkschraube Countersunk screw Tornillo embutido Vis noyée	33		1
434	10.1262-07.000	Compur-Verschluß CS 1112-558 a Compur-shutter CS 1112-558 a Compur-Obturador CS 1112-558 a Obturateur Compur CS 1112-558 a	31	mit Objektiv with lens con objetivo avec objectif	1
435	10.1262-07.003	Abschlußring Terminal ring Anillo terminal Cache	31		1
436	1112 30 558 027 01	Skalenbogen Scale Escala Echelle	33		1